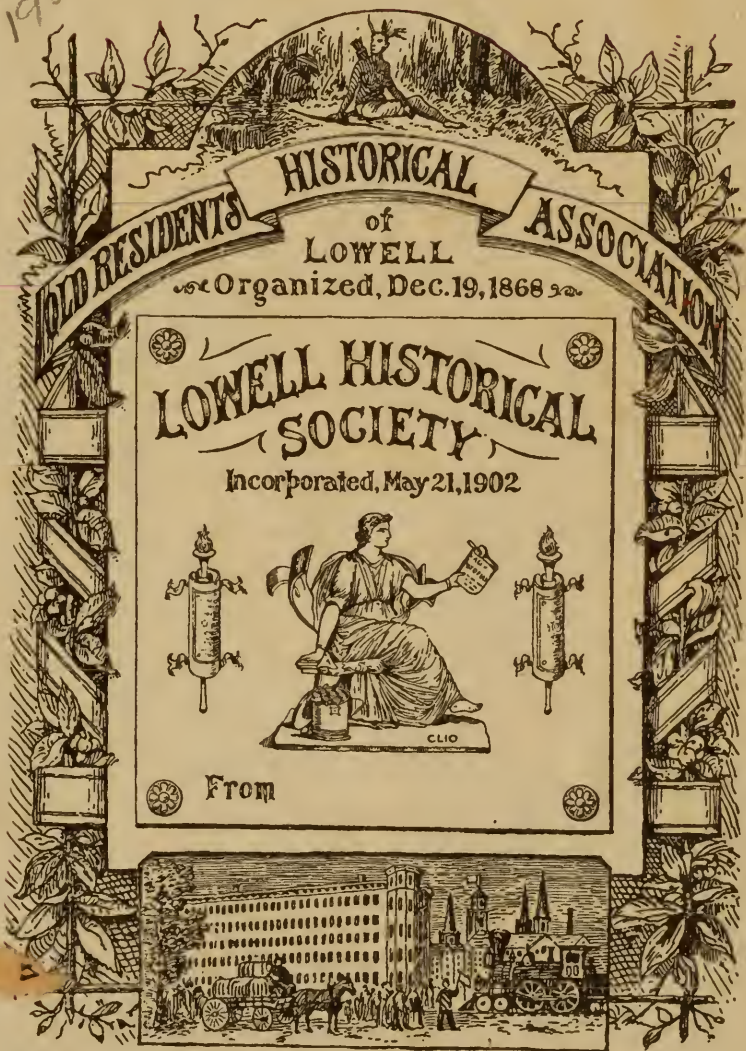
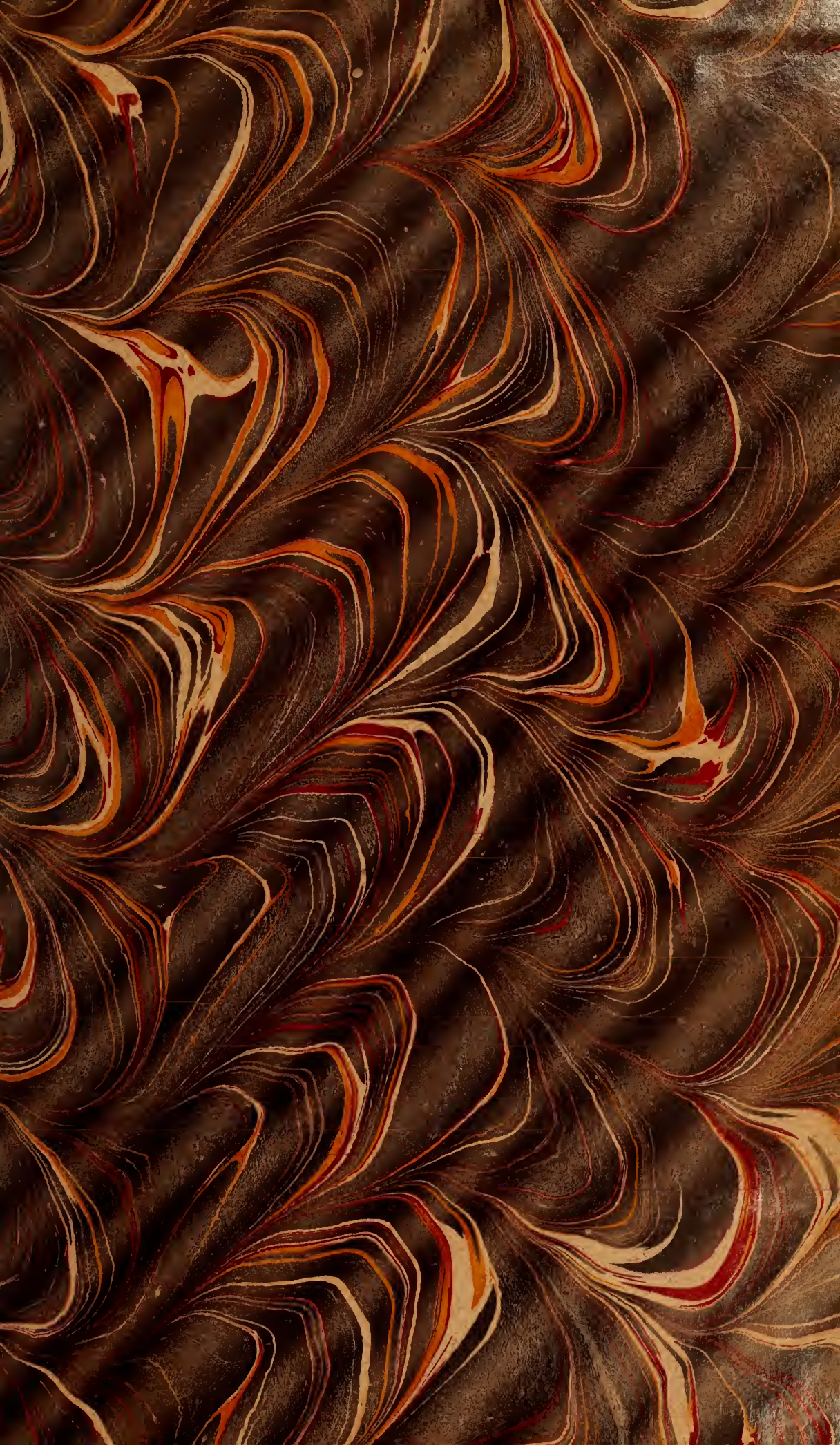



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CITY DOCUMENTS
OF THE
CITY OF LOWELL,
MASSACHUSETTS.
FOR THE
YEAR 1904 = 1905



LOWELL, MASS.
COURIER-CITIZEN COMPANY, PRINTERS
1906.

EXTRACT FROM THE ORDINANCES OF LOWELL.

CHAPTER VIII.—CITY DOCUMENTS.

SECTION 5. All City Documents (except the Rules and Regulations for the Government of the Police and Fire Departments) shall be printed in pamphlet form of the size of the Annual Report of the School Committee

SECTION 6. All City Documents shall be bound together in one volume, under the direction of the City Clerk, and three or more copies shall be placed in the City Library, and one copy in the library of the Middlesex Mechanics' Association, one copy shall be sent to each City of the Commonwealth, to the library of the Harvard College, the Public Library of Boston, the State Library, the Smithsonian Institute at Washington, and the Old Residents' Historical Association of Lowell.

CONTENTS.

1. Inaugural Address of His Honor, James B. Casey, Mayor, to the City Council, January, 1905.
2. Municipal Register, containing Rules and Orders of the City Council, and a list of the Government and Officers of the City of Lowell for 1905.
3. Seventy-Ninth Annual Report of the School Committee of Lowell, together with Forty-First Annual Report of the Superintendent of Schools, 1904.
4. Auditor's Sixty-Ninth Annual Report of the Receipts and Expenditures of the City of Lowell, together with the Treasurer's Account, and the Account of the Commissioners of Sinking Fund, for the financial year ending December 31, 1904.
5. Thirty-Second Annual Report of the Lowell Water Board, and Reports of the Superintendent of Water Works and the City Engineer to the Water Board for 1904.
6. Report of the Committee on Appropriations, 1905.
7. Report of the Overseers of the Poor, with the accompanying papers, 1904.
8. Reports of the Births, Marriages and Deaths, 1904.
9. Report of the Board of Health, 1904.
10. Report of Superintendent of Streets, 1904.

11. Report of the Chief Engineer of the Fire Department, 1904.
12. Report of the Superintendent of Street Lights, 1904.
13. Report of Board of Police for the year ending May, 1905.
14. Park Commissioners, First Annual Report, December 31, 1904.
15. Report of the Trustees of the City Library for 1904.
16. Report of the City Solicitor for the year ending 1904-'05.
17. Report of Inspector of Wires for the year ending February 1, 1905.
18. List of Jurors for the year 1905.

Inaugural Address

... of ...

Hon. James B. Casey

Mayor of Lowell

1905



LOWELL, MASS.

THE LAWLER PRINTING COMPANY

1905



Inaugural Address

... of ...

Hon. James B. Casey

GENTLEMEN OF THE CITY COUNCIL:—

The dawn of a new year witnesses the birth of a new city government. Upon you, the chosen representatives of our citizens, is dependent the successful administration of municipal affairs for the present year. The responsibilities of your position call for your best efforts and to be ever mindful that the interests of the city must be your first consideration, irrespective of party, friends or personal inclinations. Your oath of office is not an idle one,—one to be thought of to-day and forgotten to-morrow. Every man sworn to the faithful performance of a public trust knows when he is doing right and when he is doing wrong—the people also know, and are quick to reward faithful and conscientious public service.

It should be our aim to provide an honest, economical and conservative administration. The public servant who is more solicitous for his personal interests than he is for those of the city is soon singled out, and his career is short. Let your oath of office be your guidance upon all public questions. Dare to do that which you

think is right, regardless of whom it hits. Remember that human nature is more or less selfish, that the man with a proposition to advance for his personal interests, cannot always see the line between public duty and the duty he expects you to perform for him. Point it out, however, and have the courage to say "no" when "no" should be said.

Upon the wisdom and care exercised by you depends the prosperity of the community. There is not an act of your administration that will not directly affect every man, woman and child in the city. I have confidence that you gentlemen of the city council will perform your duties fearlessly and honestly, that you will be actuated by a purpose to give to our citizens the best service possible. Remember that the searchlight of publicity is upon you, that your official acts will be known and that you will be judged by those acts.

TAXATION.

The most vital question for your consideration, a question that is interwoven with every other question, is that of the tax rate. No other matter occupies so much of the thought and attention of municipal bodies. It is a problem which interests all citizens, and will continue to interest them while governments exist. The tax collector always has been regarded with unkindly feelings, sometimes with just cause, owing to the heavy burdens imposed upon the people. Unjust and unwarrantable taxation causes a storm of public indignation, and no reckless or extravagant legislative body can escape this condemnation.

The tax rate of Lowell is too high. The people want a reduction—a good and substantial reduction. This can only be secured by careful control of expenditures by successive administrations. The tax rate is regulated by the expenditures of the departments to which money is assigned by your votes. In apportioning the amount for each department the committee on appropriations plays an important part. In selecting this committee I urge you to place upon it men who will exercise the greatest care, and keep the department estimates down to the lowest figure consistent with the needs of each department. A niggardly policy is not desirable, but the people do expect a curtailment of unnecessary expenditures and an abstention from making loans for current expenses.

For some years it has been customary to make “blanket” loans in December to enable various departments to continue in running order. Some heads of departments expect these loans each year and this has a tendency to make them reckless in the handling of the people’s money, because they feel that the city council will come to the department’s relief in the closing days of the year. This method only adds to the large debt of the city by making an extra amount of annual interest and the payment of instalments of the city debt. Make it clearly understood that the amounts appropriated are for the entire year and that no further money will be allowed, unless in cases of exceptional exigency, or because of some public calamity.

The reduction of the city debt always should be kept in mind. There is a limit beyond which the city cannot go. Do not be satisfied if you keep within the limit, but try to keep as far as possible from it. The

farther we are from the limit the greater will be the borrowing capacity of the city. The greater the borrowing capacity, the better we are prepared to cope with any emergency which may arise, and to do so without asking legislative permission to borrow beyond the limit established by law.

A municipal corporation should be conducted on the same general principles as a business corporation as far as economy of expenditures and proper returns for every dollar expended. A municipal corporation is a social system, organized because man is dependent upon his fellow men. By co-operation the individual receives advantages for himself or his family, he has good streets, police and fire protection, and schools for his children. For these he pays a share proportionate to his wealth. His share of the expense is made out on his annual tax bill. If he receives a proper return for his assessment he is satisfied, if he does not he wants a lower assessment, lower taxes.

The act of incorporation of a municipality is not in itself an asset. The city charter must be backed up by something more substantial than the paper it is printed or written upon. Money is not loaned on paper but what the paper represents. Back of every note or bond issue stand the people of Lowell. The property or wealth accumulated by the people is the pledge which backs up every financial obligation assumed by vote of the city council. Every dollar borrowed by the city, every dollar owed by the city is a mortgage upon every home and every business enterprise. High taxes work an especial hardship on the small property owner, and the annual tax bill adds to his financial burdens. High taxes mean higher rents and higher prices for the necessities

of life. High taxes will demoralize business, paralyze our industries and prevent Lowell from taking a higher place among live and progressive communities.

You want to see Lowell go forward, not backward. Do your share. Courageously face the problem of taxation, concentrate your efforts towards a reduction of the city debt, systematically regulate expenditures, exercise a watchful supervision over the city's business, and give an administration that will be an example and a guide for succeeding ones to follow.

FINANCIAL STATEMENT.

Ordinary City Debt Jan. 1, 1904.....	\$2,408,756.79	
Borrowed during 1904	254,414.00	
Total.....	\$2,663,170.79	
Paid during 1904.....	345,790.79	
Total ordinary City Debt Dec. 31, 1904...		\$2,317,380.00
Water Debt Jan. 1, 1904.....	\$1,183,900.00	
Paid in 1904.....	21,600.00	
		<u>\$1,162,300.00</u>
Total City Debt Dec. 31, 1904.....		\$3,479,680.00
Deduct Water Loans	\$1,162,300.00	
“ amount exempted by Legislature..	800,000.00	
		<u>\$1,962,300.00</u>
		<u>\$1,517,380.00</u>
Limit of Municipal Debt for 1905, 2½ per cent of average valuation for last three years.....	\$1,790,038.40	
City Debt which relates to limit Dec. 31, 1904.....	1,517,380.00	
Distance from limit Dec. 31, 1904.....	\$272,658.40	

Total city valuation, 1904.....	\$71,614,907.00
Divided as follows:	
Personal.....	\$14,841,767.00
Real Estate.....	\$56,773,140.00
Assessed Polls, 1904.....	25,555
Increase.....	996

SINKING FUNDS.

Full value of all sinking funds Jan. 1, 1905.....	\$650,447.62
Full value of all sinking funds Jan. 1, 1904.....	659,215.25
Decrease during the year 1904.....	\$8,767.63
Value of Water Loan Sinking Funds Jan. 1, 1905.....	\$406,430.22
Value of Water Loan Sinking Funds Jan. 1, 1904.....	373,505.74
Increase during the year 1904.....	\$32,924.48
Value of all other Sinking Funds Jan. 1, 1905.....	\$244,017.40
Value of all other Sinking Funds Jan. 1, 1904.....	285,709.51
Decrease during the year 1904.....	\$41,692.11
Total decrease as above.....	\$8,767.63
Value of the Hapgood Wright Centennial Trust Fund Jan. 1, 1905.....	\$3,268.93
Value of the Hapgood Wright Centennial Trust Fund Jan. 1, 1904.....	3,143.24
Increase during the year 1904.....	\$125.69

During the year the Extension of Rogers Fort Hill Park Sinking Fund has been closed.

HUNTINGTON HALL.

A question that will confront the city council at once is the disposition of the Huntington Hall problem. The hall has been destroyed by fire twice within a period of

about seven years. The first fire occurred December 13, 1897. The hall was rebuilt immediately, and again destroyed by fire November 6, 1904. It would seem to be unwise for the city to again enter into an agreement with the Boston and Maine Railroad for the rebuilding of Huntington Hall. It is my belief that the citizens should have a public hall, and I recommend that the city council immediately appoint a committee to give the matter careful consideration.

The question of the abolition of the railroad station in connection with the hall is also a matter for your consideration. If the station were abolished a deed of the land might be obtained from the Boston and Maine Railroad, and the hall rebuilt on the present site. The initiative in this matter must be taken, however, by the city in the form of a petition to the General Court. The railroad has no voice in the disposition of this question, being obliged to maintain the station unless otherwise ordered by the Legislature, upon petition of the citizens of Lowell. If this station were abolished it would remedy the congestion of travel on the easterly side of the Middlesex Street Station. The tracks could be taken up on the Thorndike and Middlesex Street Crossings, and an entrance to the station provided from Thorndike Street, which would eliminate much of the congestion on Middlesex Street, fronting the station. The freight trains could be made up on the abandoned tracks of the old Boston and Maine freight yard, sent down to Western Avenue and along Dutton Street to the mills; and the great inconvenience of making up freight trains across our principal streets would be avoided. This question is one that should be given much attention. The abandonment of the Merrimack Street Station would

bring about relief to travel at those points where trains are constantly crossing and recrossing. If, however, the sentiment of our citizens is opposed to such a change, and they feel that the present station is indispensable, then I would urge you to take immediate steps to have the station rebuilt.

I simply present these different phases of the Huntington Hall matter for your consideration, and feel that you will be able to bring about a satisfactory solution of the same.

JUNKETS.

A matter that seems decidedly wrong and unfair to the citizens is the failure to restrict heads of departments, boards and commissions voting themselves junkets from appropriations given to their departments. At times it is desirable, and a benefit to the city, that public officials be allowed to visit other cities to obtain special information, yet I question if department appropriations are available for such purposes without some supervising restrictions. Criticism is directed against a city council committee if, in the acquisition of special information upon a subject under consideration, they feel it necessary to visit other cities; and the privilege is denied such a committee unless on approval by the mayor. I would advise that restrictions be placed upon the different departments, which could be done by enactment of a proper ordinance.

SCHOOL DEPARTMENT.

The school department is the largest into which the work of the city is divided. It is also by general consent the most important, since the welfare, training and education of the children and youth of the city must always hold a place second to no other in the estimation of an intelligent public. The school system consists of 59 schools in 55 separate buildings, with 289 school-rooms in actual use. Its enrollment of pupils in the year just passed was 12,223, and the number at present is 10,840 in day schools, 2200 in high and elementary evening schools and 200 in the evening drawing and art schools. To care for these pupils the city employs 296 elected teachers for day schools, 174 for evening schools and 24 for evening drawing and art schools. The sum appropriated for the use of all classes of schools in 1904 was \$300,000, and while the last figures for expenses are not all in as yet the department will live within its appropriation.

There is no denying that the expenses of the school department have increased faster in recent years than have the pupils. In the last ten years pupils in day schools have increased from 8,868 to 10,840, a gain of only a little over 22 per cent, while expenditures have increased from \$230,000 to \$300,000, a gain of 30 per cent. Modern times demand modern methods and equipments. Improved systems of ventilation require more coal and more janitors; the Kindergarten for children under five years of age is expensive, but the people demand it, and are, for the most part, willing to pay for it; commercial courses and manual training in the High School increase cost very largely, but they are of unquestioned value

and no one would think of dropping them or of impairing their efficiency. In fact the public never complains of money spent on education provided that expenditures are judicious and appropriate. That expenses shall be judicious and appropriate is the proper demand of the public upon the school committee.

NEW SCHOOLS.

A question for your immediate attention is the building of new schools. Two years ago a site was purchased for a new grammar school in the Centralville district. It is imperative that this matter be taken up at once as no one denies that increased educational facilities should be provided in that section. The failure of last year's city council to provide an appropriation for the school was caused by lack of harmony, and a conflict of views upon the kind of a school needed, I trust that your honorable body will so act that work may be started at an early date.

Increased school accommodations in the Highland district should be considered. Last year a temporary wooden addition was built to the present school. This is not satisfactory and better accommodations should be provided.

The old pitched roof of the Green School is badly in need of repairs and to make these repairs it will cost \$1500. I would suggest that instead of repairing the roof it be removed and another story added which would provide two additional rooms and an assembly hall.

PARK COMMISSION.

In the nearly two years of its existence the Park Commission has performed excellent work in the management of our park system. I especially commend the commission for the faithful and conscientious service they have rendered. I look forward to a continuance of such good work, which brings about an improvement in our public parks.

In a city like Lowell too much attention cannot be given to our public breathing places where our citizens can enjoy freedom and recreation that only such places can provide. I recommend for your consideration a small appropriation to enable the commission to install athletic apparatus on the commons, and afford an opportunity for young men to secure physical developement. Such an addition to our park system I believe to be in the line of municipal progressiveness.

I would call attention to the desirability of acquiring the small tract of land fronting on Pawtucket and New Moody Streets, to be fitted up for a park, which can be done at small expense, and made an improvement to that section of the city.

As a means of providing safe and healthy exercise for young people, I recommend that the Park Commission be enabled to furnish suitable skating surfaces on the North and South commons during the winter months. There are many vacant lots which also could be flooded for the same purpose with the consent of the owners. That these skating parks would be appreciated is evidenced by the large number of young people who derive great pleasure at the city ledge on Fletcher and Bowers Streets where the street department maintains a surface for skating.

BUILDING ORDINANCE.

I urge upon the city council the imperative necessity of adopting a safe and suitable building ordinance. It is strange that this matter has been neglected by past city councils. Our present building regulations are antiquated, and there is practically no local supervision over the construction of buildings. The superintendent of public buildings is powerless, in many instances, to prevent evils that now exist in the construction of buildings. It is a fact that some building are so poorly constructed that a strong wind threatens demolition.

I would suggest that a committee be appointed immediately to give this matter consideration, and that if an ordinance is reported that it not be pigeon-holed. It might be advisable to have an architect to assist the committee, and perhaps, a committee from the Master Builders whose advice and judgment would be valuable.

CLEAN POLITICS.

It is a lamentable fact that there is a growing tendency among certain salaried officials to interfere too prominently in the various political conditions that arise. This form of interference is oftentimes widespread and has a demoralizing effect upon clean and progressive municipal government. No public official has the right to use his office for the purpose of intimidating, or coercing any subordinate employe to do his bidding. A man employed by a department gives his service for the compensation he receives and is entitled to freedom of political convictions. A public official has no right to in-

terfere with any man engaged in business, to the extent of intimating that if he would bask in the sunshine of official favor he must, with complaisance, do as he is told. There is altogether too much of this political coercion existing in the City of Lowell, and it must stop. A man elected or appointed to public office has certain prescribed duties to perform, and if he places a different interpretation upon them to the extent that he uses the office for his personal aggrandizement, and to the detriment of the city's interest, then he is unfaithful to the trust imposed upon him, and unfit to continue longer in the public service. If it comes within my observation that a public official is using his office to promote his own political power, which can only be done at the expense of the city's welfare, I will consider it cause to relieve him of the responsibilities of his office and I will do so promptly, subject to your approval.

BOARD OF PUBLIC WORKS.

The management and control of the street and sewer departments are of the utmost importance. These departments spend many thousands of dollars annually and demand a high standard of efficiency and energy from those in charge. There is a growing belief that these departments should be taken out of politics and placed on a more business-like plan. Constant agitation by those desiring to secure control of the departments has a demoralizing effect and works great injury. Under existing conditions a good superintendent is turned out of office as quickly as a bad one, and consequently there exists no incentive for a superintendent to fearlessly perform the duties of the office.

As a remedy for this condition of affairs I would recommend the establishment of a board of public works, consisting of three citizens to be elected by the people, the term of office to be three years, the city civil engineer to be a member, ex-officio, in an advisory capacity. This board should have absolute control over the management of streets, sewers and bridges. To my mind this method would allow a permanent and systematic laying out of work each year, more work could be accomplished, and a superintendent would know that his position depended upon the ability and the competency displayed. Men employed in the department would be assured of steady employment. Each year this board could present to the city council its recommendations for the work to be done during the year, and appropriations could be made based upon the estimates presented. In this manner the department could live within its appropriation, the superintendent could go ahead knowing what work was to be done; and all sections of the city would receive systematic improvements. If this recommendation meets with your approval I would suggest that a committee be appointed to present to the General Court the draft of an amendment to our charter, with a clause that the referendum be attached to the act so that the people can pass judgment upon it.

STREET DEPARTMENT.

For the paving of heavily traveled streets I would recommend the use of granite blocks, of uniform size, laid on a concrete base and filled in with pitch tar

and crushed stone. This kind of paving seems to be the most permanent and desirable that can be used. This paving can be laid by our own city employees without importation of outside labor.

Owing to the extensive use of concrete for sidewalks a municipal concrete plant would seem to be a necessity. It can be established for about \$1000 and will save the city large sums annually.

The almost yearly replanking of Central bridge is a source of annoyance and extravagance which could be avoided by laying some kind of permanent paving, provided the bridge can sustain it.

I recommend that trap rock be used for the surfacing of much traveled streets. In the near future the city will be called upon to provide stone for the macadamizing of streets, as the Carney Ledge, so called, in Moody Street will hardly last another season; and, unless it is proposed to sink the Fletcher Street ledge to a lower level than at present, the city will be without proper material for macadamizing,

I suggest a continuance of resetting edgestones and repaving sidewalks in a manner to bring them up to date.

BAND CONCERTS.

I recommend that \$700 be set aside at the beginning of the year for municipal band concerts during the summer months. It might be advisable to have several concerts on the common on Thursday afternoons so as to give women and children an opportunity to enjoy them, they, perhaps, finding it inconvenient to attend evening concerts.

NEW INDUSTRIES.

Lowell always has been noted as a manufacturing center. This is a desirable condition for any community, as the success of industrial enterprises means the success of the place in which they are located. Our city has made steady progress along industrial lines, but with our unexcelled advantages there is room for further growth. Every new enterprise will add to the taxable property of the city, will open a wider field for the employment of labor, place more money in circulation, benefit our merchants and owners of real estate, and add to the general prosperity of the city.

No enterprise, however small, should be ignored. Any business that gives employment at good wages should be encouraged. The city council should take an active interest in securing new industries for Lowell, and it was for this purpose the committee on industries was formed. This committee can be made a most important one and I urge the members of it to make efforts to add to our manufacturing enterprises. I shall do all I can to induce manufacturers to locate here and in doing so will act in hearty co-operation with the committee on industries.

BOARD OF OVERSEERS OF POOR.

The care of the poor, the providing of relief for the sick and infirm who are unable to care for themselves, is a condition that confronts every municipality. That too much politics is injected into this department, that greater retrenchment and economy in expenditures could be secured, and that those in charge are hampered in the per

formance of their duties are conditions known to exist. I do not criticize the present overseers of the poor, but condemn the system that allows so much abuse of this department and so many evils to exist. If there is a department that should be removed from political influence it is certainly this department, and yet we find a far different condition of affairs existing.

I recommend the abolition of the board of overseers of the poor, and the creation of a board of three citizens of unquestioned integrity and honesty to be appointed by the mayor, with a tenure of office of not less than three years, they to have entire control and care of the pauper department. This change would bring about a reduction in expenditures, ensure a higher standard of efficiency and eliminate the baneful effects of changing political conditions. The officials in charge could perform their duties fearlessly and exercise their judgment to the betterment of the condition of the poor entrusted to their care. If this recommendation meets with your approval, I would suggest that in the act to be presented to the General Court, the referendum be attached.

CONCLUSION.

In conclusion let me say to you, Gentlemen of the city Government, that the greater responsibility rests upon you to meet the many questions that will arise during the year. Remember well the solemn oath you have just taken to perform your duties to the best of your knowledge and ability.

As chief executive of the city I will gladly and willingly co-operate with you in your efforts to do what is

best for the interests of the city. Let us try to make a greater and a better Lowell. Let us be progressive and up-to-date. Remember that the very foundation of all government is today and always will be, "the greatest good to the greatest number."

Let there be no favoritism, treat all citizens and interests squarely and alike and if we do this I do not fear, and gentlemen you need not fear, when your term of office shall have ended but what our fellow citizens will say that we tried faithfully to do our full duty to our beloved city that is so near and dear to us all.

MUNICIPAL REGISTER

CONTAINING

RULES AND ORDERS

OF THE

CITY COUNCIL

AND A LIST OF THE

GOVERNMENT AND OFFICERS OF THE CITY OF LOWELL

1905.



LOWELL MASS.

THE LIBBY PRINTING CO., PRINTERS.

1905.

JOINT RULES AND ORDERS OF THE CITY COUNCIL

1. In the month of January, and not later than the second regular meeting after organization of each branch of the City Council, joint standing committees shall be appointed as follows :

A COMMITTEE ON CLAIMS.

A COMMITTEE ON EDUCATION.

A COMMITTEE ON FIRE DEPARTMENT.

A COMMITTEE ON LANDS AND BUILDINGS.

A COMMITTEE ON MILITARY AFFAIRS.

A COMMITTEE ON ORDINANCES AND LEGISLATION.

A COMMITTEE ON PRINTING.

A COMMITTEE ON STREETS.

A COMMITTEE ON COMMONS.

A COMMITTEE ON INDUSTRIES.

Each committee shall consist of two Aldermen and three members of the Common Council, except the Committee on

Streets, which shall consist of two Aldermen and five members of the Common Council.

2. Each board shall, in such manner as it may determine, select its own members for any joint committee.

3. In all joint standing committees, except that on Finance, the member first named in the Board of Aldermen shall be chairman; on the Committee on Finance, the member first named in the Common Council shall be chairman; and in all joint special committees, the member first named in the board where the business originates shall be chairman, and shall call the committee together.

4. Reports of committees shall be made to the board first meeting after such reports are prepared and signed.

5. No committee shall act by separate consultation, and no report shall be received unless agreed to in committee actually assembled.

6. It shall be the duty of every joint committee (the Committee on Streets excepted) to whom any subject may be specially referred, to report thereon within five weeks, or ask for further time.

7. The by-laws of the city shall be termed ordinances; the enacting clause of which shall be — Be it ordained by the

City Council of the City of Lowell, as follows : In all votes by which either or both branches of the City Council express anything by command, the form of expression shall be, Ordered, and whenever either or both branches express opinions, principles, facts or purposes, the form shall be, Resolved.

8. An ordinance may originate in either board, and shall be considered in three several stages. It shall first be read for information, and the question shall then be on ordering it to the Joint Standing Committee on Ordinances and Legislation, and then sent to the other branch for concurrence. When reported back, the recommendations of the committee shall first be acted on. If it shall then be ordered to a second reading, it shall next be examined by a standing committee of that board, who shall see that it is drawn in proper form. When returned by such committee, the question shall be on ordering it to be enrolled. If so ordered, it shall then be sent to the other board, where the same order of proceedings shall be observed. When it has been ordered by both branches to be enrolled, it shall be enrolled by the Clerk of the Common Council, and shall be by him submitted to the proper committee of that board to ascertain if it has been correctly enrolled. If so reported, the question shall be on passing it to be ordained. If it shall so pass, it shall be signed by the President of the Common Council, and be sent to the Board of Aldermen, where it shall take a like course. If passed to be ordained in that board, it shall be signed by the Chairman of the Board of Aldermen and sent to the mayor for his approval.

9. An ordinance may be rejected in any stage, but may not pass through all its stages in the same day. Each board shall transmit to the other all papers on which any ordinance, joint resolution, or order shall be founded ; and all papers on their passage between the two boards, shall be under the signature of their respective clerks, except ordinances and joint resolutions in their last stage, which shall be signed by the presiding officers. If papers come before either board which have been duly acted upon in the other board, the presiding officer shall so state without reading the endorsements of the clerk, unless the latter are called for.

10. All enrolled ordinances shall be written in a fair and legible hand, or typewritten, provided a permanent record ribbon is used, without interlineations or erasures, and no enrolled ordinance or resolution shall be amended.

11. Every joint resolution shall be read in the board in which it is introduced, and the question shall be upon ordering it to a second reading. If so ordered, the question shall then be upon its passage. If passed, it shall be sent to the other board, where the order of proceeding shall be the same. When passed by both boards, the resolution shall be presented to the Mayor for his approval, and when the same shall be in force, shall be enrolled by the clerk of the Common Council, and when found correctly enrolled as provided in the case of an ordinance, it shall be signed by the President of the Common Council and the Chairman of the Board of Aldermen, and be presented to the Mayor for his signature if he approved the original.

12. Joint orders shall require but one reading, and when adopted, shall be sent to the Mayor for his approval, except when they relate to a question of a convention of the two branches, or the election of any officer.

13. When either board does not concur with the other in any ordinance or resolution sent from the other, notice of such non-concurrence shall be given by a written message.

14. In any case of non-concurrence, each board may appoint a Committee of Conference. Such committee shall consist, in each case, of three members who support the vote of their own board. These two committees may meet jointly or separately, and a majority of each shall decide its action.

15. All reports and other papers submitted to the City Council shall be written in a fair hand, or typewritten, provided a permanent record ribbon is used, without endorsement, except in case of the introduction of an order or resolution. In such a case the member introducing an order or resolution shall subscribe his name at the bottom of the back of the same. All other endorsements upon the back of papers shall be made by the clerk; and the clerks of the boards respectively, shall, on seasonable notice, make copies of any papers to be reported by committees, at the request of the respective chairmen thereof.

16. No business shall be transacted by the City Council in convention, except such as shall have been previously agreed on, unless by unanimous consent.

17. In balloting in joint convention, blanks shall be reported but not counted as votes.

18. When both boards are in session at the same time, neither shall adjourn without giving notice to the other of its intention.

19. All petitions, reports, or other papers of whatever description, relating to business requiring the concurrent action of both boards of the City Council, shall be submitted by committees to the clerk of each board at least twenty-four hours before the time of meeting of either board, and the clerk of each board shall prepare a brief synopsis of all matters to be acted upon, and place the same on the desk of each member of the City Council prior to the hour of opening the meeting. No reports or orders not previously furnished as herein described, shall be considered in either branch unless two-thirds of the members present consent thereto.

20. These rules may be suspended for a specific purpose, or amended, whenever twenty-four members of a joint convention of the two branches shall so direct, or whenever a joint order to that effect shall be passed by the votes of six members of the Board of Aldermen and eighteen members of the Common Council,

21. No resolution for the extension and laying out of any street or public highway shall be passed to a second reading by either branch of the City Council until the city

civil engineer shall certify to the council that said street or highway is fully completed, and graded to the grades named in the resolution, without expense to the city.

22. A yea and nay vote of the members of the City Council shall be required to pass any order or vote involving the expenditure or the appropriation of the public moneys, or involving any debt or liability, and such vote shall be entered upon the records of each branch of the City Council.

23. Less than a quorum of each branch of the City Council may adjourn to a fixed day earlier than the regular meeting, and shall have power to compel the attendance of all absent members in such manner as the City Council may by ordinance provide.

24. In the absence of rules governing both boards of the City Council, Cushing's Manual shall decide the point.

RULES AND ORDERS OF THE BOARD OF ALDERMEN

1. At the appointed time the presiding officer shall take the chair, and on the appearance of a quorum, proceed to business.

2. The order of business shall be as follows :

First.—At all regular meetings the journal of the last regular meeting and all intervening meetings of the board shall be approved without reading, unless the reading be called for by some member of the board.

Second.—Petitions and similar papers.

Third.—Appointments, elections, etc.

Fourth.—New business, which, unless otherwise ordered, will take its place at the foot of Orders of the Day.

Fifth.—Orders of the Day, consisting of unfinished business of the last previous meeting, papers from the Common

Council and such matters as have been introduced as new business. By a vote of six members, any matter in the Orders of the Day may at any time be taken up for immediate consideration.

3. The presiding officer shall decide all points of order, subject to appeal. He may read while sitting, but must rise to put a question. He shall allow debate on a question until the vote has been declared, but not on the verification of a vote; and on demand of two members shall take every vote by yeas and nays.

4. When a question is under debate, the presiding officer shall receive no motion but to adjourn, to take up a special assignment, to lay on the table, to postpone to a day certain, to commit, to amend, or to postpone indefinitely. These several motions shall have precedence in the foregoing order, and debate upon any of them shall be confined to the actual motion, and shall not go into the merits of the main question, except on amendment.

5. When a vote has passed, except for adjournment or to lay on the table, any member voting with the majority may move a reconsideration, to be acted upon at the same meeting. Any member voting with the minority may move a reconsideration, to be acted upon at the next meeting, which latter motion shall have priority, if made before the motion first mentioned shall have been decided. Provided, however, that no motion of reconsideration made by a member voting with the minority shall be received on any subsid-

iary or incidental question. No motion shall be twice reconsidered.

6. No member shall be interrupted while speaking, but by a call to order, or for the correction of a mistake; nor shall there be any conversation among the members while a paper is being read, or a question stated from the chair.

7. When any member is about to speak in debate, he shall rise in his place and respectfully address the presiding officer, shall confine himself to the question under debate, and avoid personality.

8. In the month of January the following committees shall be appointed :

A COMMITTEE ON BILLS IN SECOND READING.

A COMMITTEE ON ELECTRIC WIRES.

A COMMITTEE ON ENROLLMENT.

A COMMITTEE ON LICENSES.

A COMMITTEE ON LIGHTING STREETS.

A COMMITTEE ON SEWERS.

A COMMITTEE ON WEIGHTS AND MEASURES.

A COMMITTEE ON STATE AID.

The committees on Licenses, on Sewers, and on Electric

Wires shall consist of three members each ; the other committees shall be composed of two each.

9. Every member present shall be held obliged to vote on all questions, and not to leave without permission, if his presence is necessary to make a quorum.

10. The clerk shall prepare, for the use of the board, a copy of the Orders of the Day, to which shall be added a list of matters laid on the table or postponed to a day certain.

11. When a reference is proposed to more than one committee the question shall first be upon a standing committee of the board, then a special committee, then a joint standing committee, and last a joint special committee.

12. These rules may be amended or suspended whenever two-thirds of the members present may so vote ; but a motion to amend shall not be made and finally acted upon at the same meeting.

13. All nominations shall lie on the table three days at least before action thereon by the board.

14. All papers, of whatever description, which may require action by the board, shall be presented to the City Clerk not later than the hour of noon on the day of each regular meeting. Petitions, reports and other papers, presented after that hour on such day, will not be considered until the next meeting.

RULES AND ORDERS OF THE COMMON COUNCIL

1. Upon the arrival of the hour fixed upon for the meeting, the President shall call for order, and within ten minutes (or sooner, if a quorum be present,) cause the clerk to call the roll and report to him the number present, and the number absent, which information he shall, in turn, announce to the body. In the absence of the President, the eldest senior member shall call to order and preside until a President pro tempore is chosen.

2. The President shall preserve order and decorum. He may speak to points of order in preference to other members, rising for that purpose. He shall decide questions of order, subject to appeal, but shall entertain no discussion on the merits of his ruling.

3. While addressing the body the President shall stand, but he may read or put questions while sitting.

4. The President shall declare all votes, and, if a vote be doubted, he shall, without permitting further debate, require the members voting in the affirmative to rise and

remain standing until they are counted by the clerk; then he shall require the members voting in the negative to rise and remain standing until they are counted by the clerk, and he shall thereupon, on information from said clerk, declare the result.

5. The President may call any member to the chair, but such substitution shall not extend beyond an adjournment, and when out of the chair he may express his opinion on any subject under debate, but he must not resume the chair while the same question is pending.

6. All questions shall be propounded by the President in the order in which they are moved, unless the subsequent motion be previous in its nature.

7. After a motion is stated by the President, it shall be disposed of by a vote of the body, unless the mover (no objection being offered) withdraws it before a decision or amendment.

8. A motion to adjourn shall always be in order, unless the body is engaged in voting.

9. The previous question shall be in this form: "Shall the main question be now put?" It shall only be admitted when demanded by a majority of members present, and until it is decided, shall preclude all amendment and debate of the main question.

10. The yeas and nays shall be taken on any question upon demand of one-third of the members present.

11. When two or more members rise at the same time, the President shall name the member who shall speak first.

12. Every motion shall be reduced to writing, if the President or any member requires it.

13. When a question is under debate, no motion shall be received but to adjourn, to lay on the table, for the previous question, to postpone to a certain day, to commit, to amend, or to postpone indefinitely; which several motions shall have precedence in the order in which they are arranged; and no motion to postpone or commit shall be allowed twice in the same day, in the same stage of the ordinance or proposition, nor shall a vote on any subsidiary or incidental motion be reconsidered, except a motion to that effect be made and be acted upon at the same meeting at which the vote was decided.

14. When any member is about to speak in debate, or deliver any matter to the body, he shall rise and respectfully address the presiding officer, confine himself to the question, and avoid personality.

15. During debate no member shall be mentioned by name, but he may be described by such other designation as may be intelligible and respectful.

16. No member, while speaking, shall be interrupted by another, but by a call to order or to correct a mistake. . If any member, in speaking or otherwise, transgresses the rules of the body, the President shall, or any member may, call him to order ; in which case the member so called to order shall immediately be seated until the question of order is decided. If the decision be in favor of the member called to order, he shall be at liberty to proceed ; if otherwise, he shall not proceed without leave of the body.

17. No member shall speak more than twice to the same question without obtaining leave of the body.

18. Whilst the President is speaking, no member shall pass between him and the body, and while a member is speaking no member shall pass between him and the President ; nor shall any person rise in front of a speaking member except to raise a point of order.

19. When a question has been decided, any member voting with the majority may move a reconsideration to be acted upon at the same meeting. Any member voting with the minority may move a reconsideration to be acted upon at the next meeting ; which later motion shall have priority, if made before the motion first mentioned shall have been decided. No vote or question shall be twice reconsidered.

20. Every member present when a question is put shall unless for specific reasons, excused by a majority of the

members, give his vote. But in the election of any city officer, he may decline to vote, as provided in Section 7, Chapter 26, of the Revised Laws. And no member shall leave without permission, if his presence is necessary to make a quorum.

21. No motion or proposition, on a subject different from that under consideration, shall be admitted under color of an amendment.

22. All reports may be committed or recommitted at the pleasure of the body.

23. The division of a question may be called for when the sense will admit of it.

24. A majority vote shall be necessary to sustain objection to the reading of a paper.

25. No standing order shall be suspended, except by a two-thirds vote of the members present; nor shall any rule or order governing the body be repealed or amended without one day's notice, nor unless fourteen members concur therein.

26. The order of business shall be as follows :

1—Roll call.

2—Reading of records.

- 3—Papers from the Board of Aldermen.
- 4—Communications and reports from city officials.
- 5—Presentation of petitions, remonstrances and memorials.
- 6—Reports of committees.
- 7—Unfinished business of preceding meetings.
- 8—Motions, orders or resolutions.

The above order of business shall not be departed from, except by a vote of a majority of the members present, but the body may appoint a committee of two to approve the records of the clerk during the year, and if such a committee is appointed, the reading of the records shall be omitted, unless called for by one-third of the members present.

27. The seats of the Common Council shall be numbered and determined by lot, and no member shall change his seat but by permission of the President.

28. All committees, except such as the body determines to select by ballot, or such as may be required by statute to be voted for, shall be appointed by the President, and the political minority shall be represented by at least one member.

29. No member shall be obliged to serve on more than two committees at the same time, or be chairman of more than one.

30. All memorials and other papers addressed to the body shall be presented by the President, or by a member in his place, who shall explain the subject thereof; and they shall be taken up in the order in which they were presented, unless the body shall otherwise direct.

31. Standing committees shall be appointed on the following subjects :

On Second Reading of Bills and Ordinances.

On Enrollment.

On Elections and Returns.

32. No committee shall sit during a session of the body, without special leave, except the Committee on the Second Reading of Bills and Ordinances and the Committee on Enrollment.

33. These rules shall be observed in the Committee of the Whole, so far as they are applicable, except Rule 17.

34. When a committee is nominated by the chair, the first person named shall be chairman. In the election of committees, except on finance, when a chairman is not specially chosen, the person having the highest number of votes shall act as chairman; and in case of an equality in votes

between two or more members of a committee, the members thereof shall choose a chairman.

35. All committees shall consist of three members, unless otherwise specially provided for; and no report shall be received from any committee unless agreed to in committee actually assembled; and reports shall be in writing, unless otherwise ordered.

36. It shall be the duty of every committee to whom any subject may be specially referred, to report thereon within five weeks, unless further time be previously asked for and granted.

37. Members of the body may attend any meeting of any of its committees, but shall not vote thereat.

38. All ordinances and resolutions shall have two several readings before they shall be finally passed. See Joint Rules 7 and 8.

39. All ordinances after being read a second time shall be referred to the Committee on the Second Reading of Bills and Ordinances, and after being reported upon by said committee, shall be again read, after which the question shall be on passing the same to be enrolled.

40. No ordinance or resolution imposing penalties, or authorizing the expenditure of money, shall have more than one reading the same day.

41. Any member offering a resolution or order shall write his name on the bottom of the back of such paper.

42. All city officers shall be voted for in accordance with Section 7, Chapter 26, of the Revised Laws.

43. The clerk shall keep brief minutes of the votes and proceedings of the body, entering thereon all accepted resolutions; shall notice reports and memorials, and other papers submitted to the board, only by their titles or by a brief description of their purport.

44. The clerk shall keep the record of committees that may require that service; and on the appointment of every standing committee, a book for records shall be provided by its chairman, or by said clerk. The clerk shall have the custody of all minutes by him kept; and the records of the several committees shall be open to the inspection of members of the City Council.

45. With the exception of an order for a joint convention, any joint order or resolution originating in the Common Council shall be copied, and shall, previous to the hour for calling the meeting to order, be posted by the clerk, in some prominent place in the Common Council Chamber or coat room, where it may be open to the inspection of members.

46. All orders, resolutions, reports, petitions or other papers, (except communications) requiring concurrent action,

or action by this body only, shall be filed by members in the office of the City Clerk at least twenty-four hours before the time set for the meeting of the body; also all reports or papers from committees.

47. No paper entered in violation of the preceding rule shall be considered except by unanimous consent.

48. The clerk shall, previous to each regular or special meeting, prepare, in the sequence of the order of business, a brief synopsis of all matters to be acted upon, and place, or cause to be placed, on the desk of each member, a copy of the same, prior to the hour designated for calling such meeting to order.

49. "Cushing's Manual" shall be authority on all questions of debate or parliamentary usage, when the same does not conflict with the rules and orders of this body.

50. A copy of "Cushing's Manual" shall, at all times, during the sessions of this body, be on the desk of the President.

SPECIAL RULE.

All joint orders requiring eoncurrent action, calling for the contraction of loans, except loans in anticipation of taxes, shall first be read for information and shall then lie upon the table until the next meeting, when action upon the passage of the same may be taken. This rule shall not be suspended or repealed unless by a two-thirds vote of the members present.

CITY COUNCIL AND COMMITTEES FOR 1905.

MAYOR

JAMES B. CASEY.....87 Summer Street

ALDERMEN

OTIS ALLEN.....947 Middlesex Street

THOMAS H. BRADEN.....118 Branch Street

JAMES H. CARMICHAEL.....22 Rolfe Street

DANIEL COSGROVE.....492 Gorham Street

WILLIAM FAIRWEATHER.....756 School Street

ALBERT F. GRANT.....244 Gibson Street

WILLIAM J. HAYES.....61 Coranell Avenue

FRED H. ROURKE.....777 Central Street

JAMES F. WALKER.....43 Seventh Street

ALBERT F. GRANT.....Chairman

GIRARD P. DADMAN.....Clerk

COMMON COUNCILMEN**Ward One**

JAMES H. FLEMING.....92 John Street
 JAMES J. HAYES.....(died Sept. 4.).....85 French Street
 CHARLES F. MORSE.....19 Second Street

Ward Two

FREDERICK CRONAN.....9 Franklin Court
 JEREMIAH A. DALY.....211 Fletcher Street
 FRANK McMAHON23 Adams Street

Ward Three

EDMUND J. CHENEY.....19 Grove Street
 HARRY H. J. READ.....347 Westford Street
 WESLEY M. WILDER.....6 Coral Street

Ward Four

HENRY F. CARR.....1 rear 592 Gorham Street
 DENNIS J. DONOHUE.....13 Newhall Street
 JOHN P. MAHONEY.....12 New Street

Ward Five

JOHN DONOHUE.....3 rear 104 Lawrence Street
 ANDREW McALOON.....8 Everett Street
 EDWARD F. SHEA.....178 Perry Street

Ward Six

FREDERICK G. BALDWIN.....374 Beacon Street
JOHN H. BLAKE.....129 Fulton Street
NORMAN W. WHITE.....471 Bridge Street

Ward Seven

J. OMER ALLARD.....994 Moody Street
LEON MARCOTTE.....145 Cross Street
WILLIAM G. MCINTYRE.....19 Lombard Street

Ward Eight

WILLIAM H. DODGE.....28 South Walker Street
CHARLES N. LEACH.....1358 Middlesex Street
SOLOMON S. MAYBERRY.....54 Jenness Street

Ward Nine

CHARLES H. CLOUGH.....546 Rogers Street
BURTON H. CROSBY.....111 Moore Street
JOHN W. DALY.....76 Andrews Street
WILLIAM H. DODGE.....President
FRANK M. DOWLING.....Clerk

MEETINGS OF THE CITY COUNCIL

The regular meetings of both branches of the City Council are Held at the City Hall as follows :

ALDERMEN

Second and fourth Tuesdays in each Month except August.

January.....	10 and 24	July.....	11 and 25
February.....	14 and 28	September.....	12 and 26
March.....	14 and 28	October.....	10 and 24
April.....	11 and 25	November.....	14 and 28
May.....	9 and 23	December.....	12 and 26
June.....	13 and 27		

At 8 P. M.

COUNCILMEN

First and third Tuesdays in each month except August.

January.....	3 and 17	July.....	4 and 18
February.....	7 and 21	September.....	5 and 19
March.....	7 and 21	October.....	3 and 17
April.....	4 and 18	November.....	7 and 21
May.....	2 and 16	December.....	5 and 19
June.....	6 and 20		

At 8 P. M.

Joint Standing Committees of the City Council

APPROPRIATIONS—Aldermen Braden, Grant and Cosgrove ; Councilmen Dodge, Read, Morse and McAloon.

ACCOUNTS—Alderman Braden ; Councilmen Baldwin and McIntyre.

CLAIMS—Aldermen Walker and Hayes ; Councilmen Leach, Marcotte and J. W. Daly.

EDUCATION—Aldermen Walker and Allen ; Councilmen Wilder, Baldwin and J. A. Daly.

FIRE DEPARTMENT—Aldermen Fairweather and Hayes ; Councilmen Allard, White and Shea.

FINANCE—Councilman Cheney (Chairman) ; Mayor James B. Casey, Alderman Carmichael ; Councilmen Mahoney and Crosby.

INDUSTRIES—Aldermen Carmichael and Rourke ; Councilmen Crosby, Allard and McMahon.

LANDS AND BUILDINGS—Aldermen Allen and Braden ; Councilmen McIntyre, Blake and Cronan.

MILITARY AFFAIRS—Aldermen Fairweather and Carmichael ; Councilmen Crosby, Blake and D. J. Donohue.

ORDINANCES AND LEGISLATION—Aldermen Braden and Rourke ; Councilmen Wilder, Clough and Carr.

PRINTING—Aldermen Hayes and Rourke ; Councilmen Leach, Marcotte and John Donohue.

STREETS—Aldermen Fairweather and Hayes ; Councilmen Morse, Mayberry, Fleming, Clough and Mahoney.

Joint Special Committees

FOURTH OF JULY—Aldermen Fairweather, Walker and Rourke; Councilmen Crosby, Baldwin, McIntyre, Mahoney and McMahon and Mayor Casey.

SANATORIES—Councilmen Hayes, Clough and John Donohue; Aldermen Allen and Rourke.

MUNICIPAL LIGHTING AND HEATING—Councilmen Hayes and Morse; Alderman Walker.

HUNTINGTON HALL AND RAILROAD STATION—Aldermen Braeen, Fairweather and Grant; Councilmen Crosby, Shea and Dodge and Mayor Casey.

Standing Committees of the Board of Aldermen

SEWERS—Aldermen Grant, Walker and Cosgrove.

STATE AID—Aldermen Braden and Carmichael.

LIGHTING STREETS—Aldermen Fairweather and Carmichael.

ELECTRIC WIRES—Aldermen Grant, Allen and Rourke.

LICENSES—Aldermen Walker and Cosgrove.

WEIGHTS AND MEASURES—Aldermen Fairweather and Rourke.

BILLS IN SECOND READING—Aldermen Rourke and Carmichael.

ENROLLMENT—Aldermen Carmichael and Cosgrove.

Special Committee of the Board of Aldermen

POLLING PLACES—Aldermen Allen, Fairweather and Carmichael.

Standing Committees of the Common Council

BILLS IN SECOND READING—Councilmen White, Fleming and J. A. Daly.

ELECTIONS AND RETURNS—Councilmen Hayes, McIntyre and Shea.

ENROLLMENT—Councilmen Baldwin, Read and D. J. Donohue.

Special Committees of the Common Council

CLERK'S RECORD—Councilmen Cheney and John Donohue.

RULES—Councilmen Mayberry, Hayes and McMahon.

CITY OFFICERS FOR 1905.

MAYOR

Telephone, 395.

JAMES B. CASEY.....Office, City Hall

CITY CLERK

Telephone, 430.

GIRARD P. DADMAN.....Office, City Hall

Chosen by the City Council in convention in January. Term expires first Monday in January, or when successor is chosen. City Charter, Sect. 17, Ord., Chap. 8

ASSISTANT CITY CLERK

WILLIAM P. McCARTHY.....Office, City Hall

Appointed by the City Clerk, subject to approval of the Board of Aldermen.

CLERK OF COMMITTEES

Telephone, 130.

FRANK M. DOWLING, Term expires 1907.....Office, City Hall

Chosen by concurrent vote in January for the term of three years.

CITY TREASURER AND COLLECTOR OF TAXES

Telephone, 577.

ANDREW G. STILES.....Office, City Hall

Chosen by the City Council in convention in January for one year from first day of April, or until successor is chosen. City Charter, Sect. 17, Ord. Chap. 9.

AUDITOR OF ACCOUNTS

Telephone 74.

DAVID CHASE.....(died May 7).....

CHARLES D. PAGE.....(elected June 27).....Office, City Hall

Chosen by concurrent vote in January or February for one year from the first day of April, or until successor is chosen. Ord., Chap. 2, Sect. 1.

SUPERINTENDENT OF STREETS

Telephone, 572-3.

CHARLES J. MORSE.....Office, City Hall

Chosen by concurrent vote in January or February. Term expires first Monday in Jan., or when successor is chosen. Ord., Chap. 39, Sec. 1.

CHIEF OF THE DEPARTMENT OF SUPPLIES

Telephone, 230.

JAMES E. DONNELLY.....Office, City Hall

Chosen at annual city election. Sect. 3, Chap. 415. Acts of 1896.

CIVIL ENGINEER FOR THE CITY

Telephone, 136-2

GEORGE BOWERS.....Office, City Hall

Chosen by concurrent vote in Jan. or Feb. for one year from the first day of April, or until his successor is chosen. Ord., Chap. 13, Sect. 1.

CITY SOLICITOR

Telephone, 566-5.

JAMES GILBERT HILL.....Office, City Hall

Chosen by concurrent vote in Jan. or Feb. for one year from the first day of March, or until his successor is chosen. Ord., Chap. 11, Sect. 1.

CITY MESSENGER

Telephone, 130.

JOSEPH E. PATTEE.....Office, City Hall

Chosen by concurrent vote in Jan. for one year from first Monday in Feb. or until successor is chosen. Ord., Chap. 10, Sect. 1.

LIBRARIAN OF CITY LIBRARY

Telephone 506-3.

FREDERICK A. CHASE.....Office, at City Library

Chosen by the Board of Trustees of the City Library. Chap. 231, Sect. 5, Acts of 1888.

BOARD OF PARK COMMISSIONERS

THALLES P. HALL.....Term expires 1905
 COL. PERCY PARKER.....Term expires 1906
 HON. JOHN E. DRURY, (Secretary)Term expires 1907
 HON. JOHN J. PICKMAN, (Chairman).....Term expires 1908
 HARVEY B. GREENE.....Term expires 1909

One member appointed annually by the Mayor with the approval of the City Council, for a term of five years from the first Monday in May. Revised Laws, Chap. 28.

CHARLES A. WHITTET, Superintendent.

TRUSTEES OF CITY LIBRARY

JAMES B. CASEY, Chairman, Ex-Officio.....Mayor
 DENNIS A. SULLIVAN.....Term expires 1906
 MRS. ROWENA PALMERTerm expires 1907
 FRANK P. PUTNAM.....Term expires 1908
 GEORGE F. RICHARDSON, Vice-Chairman.....Term expires 1909
 THOMAS WALSH.....Term expires 1910
 FREDERICK A. CHASE,.....Clerk

One appointed by the Mayor in December for term of five years commencing the second Monday in January, or until successor is appointed.

Regular meeting last Tuesday in each month.

SUPERINTENDENT OF PUBLIC BUILDINGS

Telephone, 129-2

JOHN J. O'CONNOR.....Office, City Hall

Chosen by concurrent vote in January or February. Term expires first Monday in Jan., or when successor is chosen. Ord., Chap. 5, Sect. 1.

CITY PHYSICIAN

Telephone, 551-4

FORSTER H. SMITH.....Office, City Hall

Chosen by concurrent vote in March or April. Term expires April 30, or when successor is chosen. Ord., approved June 27, 1900.

TRUSTEES OF PUBLIC BURIAL GROUNDS

JAMES B. CASEY, Chairman, Ex-Officio.....Mayor

JOHN L. STEVENS.....Term expires Jan. 1, 1906

RICHARD A. GRIFFITHS.....Term expires Jan. 1, 1907

RICHARD A. GRIFFITHSSecretary

JOHN G. JACKSON.....Superintendent

Telephone, 58-4

One appointed by Mayor and Aldermen annually in December, for two years from the first day of January next ensuing, or until successor is Appointed. Acts of 1891, Chap. 337.

ASSESSORS OF TAXES

Telephone, 136-3

C. ARTHUR ABBOTT.....Term expires 1906

JOHN P. MAHONEY.....Term expires 1907

ABEL WHEELER.....Term expires 1908

ABEL WHEELER.....Chairman

JOHN P. MAHONEY.....Secretary

WILLIAM J. REARDON.....Clerk

ASSISTANT ASSESSORS OF TAXES

RICHARD CHARLTON	CHARLES RILEY
EDWARD T. GOWARD	JOHN F. MEEHAN
THOMAS F. GARVEY	MICHAEL BOURDON

Assessors:—One chosen by concurrent vote annually in January or February, for the term of three years from the first Monday in January, or until successor is chosen. Ord., Chap. 3, Sect. 1.

Assistant Assessors:—Appointed by the Mayor in March or April, for May and June, Subject to confirmation by the City Council. Ord. approved February 28, 1899.

INSPECTOR OF WIRES

JAMES F. McELHOLM.....Term expires Feb. 1, 1907

Appointed by Mayor and Aldermen in January for term of three years. Ord. approved July 15, 1898.

OVERSEERS OF THE POOR

Telephone, 566-3

Chosen at the City Election for two years.

JOHN F. McCOY.....Chairman

WARD

- 1—EDWARD H. FOYE, 201 Market Street.....Term expires 1905
- 2—WM. J. DUNN, 290 Adams Street.....Term expires 1905
- 3—JOHN F. McCOY, 112 Middle Street.....Term expires 1905
- 4—JOHN J. DUFF, 15 Auburn Street,.....Term expires 1905
- 5—JOHN McMANUS, 13 Merrimack Sq.....Term expires 1906
- 6—EDWIN S. EASTMAN, 96 West Street.....Term expires 1906
- 7—VITAL ROBERT, 33 Fifth Avenue.....Term expires 1905
- 8—WM. H. SHIELDS, 627 Chelmsford Street.....Term expires 1906
- 9—CHARLES H. SHEPARD, 60 Andrews Street.....Term expires 1906

Regular meeting last Thursday of the month at City Hospital.

Secretary, and Superintendent of Out-Door Poor

MARTIN J. COURTNEY, 26 Ames Street.....Office, City Hall

Hours: 9 A. M. to 4 P. M.

Superintendent of In-Door Poor

CHARLES E. DONLAN, M. D.,....Office and Residence, City Hospital

List of Committees

ACCOUNTS—Messrs. Dunn, Shepard and McManus.

AGRICULTURE, CATTLE AND SWINE—Messrs. McCoy, Duff and Shepard.

CARE AND REPAIR OF BUILDINGS—Messrs. Robert, Foye and Dunn

CLOTHING, FURNITURE AND BEDDING—Messrs. Duff, Robert and Foye.

DISPENSARY—Messrs. McCoy, Shepard and Dunn.

PRINTING—Messrs. Eastman, Duff and McManus.

OUT-DOOR RELIEF—Messrs. McManus, Shields and Eastman.

PROVISIONS AND SUPPLIES—Messrs. Foye, Shepard and Duff.

WOOD-YARD—Messrs. Shepard, Robert and Foye.

INSURANCE—Messrs. Shields, McManus and Eastman.

District and Dispensary Physicians

DISTRICT 1—CLARENCE LIVINGSTON.....9 Runels Building

DISTRICT 2—A. E. BERTRAND.....1 Runels Building

DISTRICT 3—E. M. MURPHY.....7 and 8 Shedd Building

DISTRICT 4—O. P. PORTER.....253 Central Street

DISTRICT 5—CHAS. M. FRYE.....403 Middlesex Street

DISTRICT 6—PIERRE BRUNELLE, JR.....33 East Merripack Street

City Dispensary

Office, City Hall

EDWIN F. MASON.....Clerk

Open week days 9 A. M. to 1 P. M., 2.30 to 5 P. M.

MEMBERS OF THE LOWELL WATER BOARD

OFFICE, CITY HALL.

Telephone, 271-2.

ROBERT J. CROWLEY.....President

AUGUST FELS, died July 2.....

Z. WINCHELL STURTEVANT, elected July 25.....Term expires 1906

ROBERT J. CROWLEY.....Term expires 1907

FRANK L. WEAVER.....Term expires 1908

ISAAC E. WOTTON.....Term expires 1909

JOHN W. CRAWFORD.....Clerk

ROBERT J. THOMAS.....Superintendent

The members of the Lowell Water Board are chosen by concurrent vote in January or February for a term of four years from second Monday in March following their election, one member retiring annually.

The Superintendent is chosen in March by the Board.

The Clerk is chosen by the Board in June. Ord. Chap. 45.

HOURS: 9 A. M. to 5 P. M.

COMMISSIONERS OF SINKING FUNDS

FRED A. BUTTRICKTerm expires 1906

CHARLES L. KNAPP.....Term expires 1907

AUSTIN K. CHADWICK.....Term expires 1908

ANDREW G. STILES.....Secretary and Treasurer

One member elected annually by the City Council in December for three years, commencing January first. Revised Laws, Chap. 27, Sect. 14.

BOARD OF CIVIL SERVICE EXAMINERS

JOSEPH SMITH.....Chairman

JOHN J. COLTON, M. D., CHARLES H. CONANT, JOSEPH SMITH

CHARLES H. CONANT.....Secretary

Appointed by State Civil Service Commissioners.

**SUPERINTENDENT OF STATE AID AND AGENT FOR
THE BURIAL OF INDIGENT SOLDIERS
AND SAILORS, ETC.**

Telephone, 136-4

HUBERT M. POTTER

MARY C. BRENNAN, Asst. Supt.

Appointed by Mayor and Aldermen prior to first day of February,
for one year. Ord. approved Sept. 27, 1898.

FIRE DEPARTMENT

The Chief Engineer is elected by concurrent vote in the month of
March or April, for the term of three years. Sec. 2, Chap. 95, Acts of 1897.

Assistant Engineers appointed by the Mayor and Aldermen in March
or April, the First Assistant for three years, the others for one year, com-
encing the first day of May. Ord. approved Nov 27, 1896.

Chief Engineer

Telephone, 201-12

EDWARD S. HOSMER, 202 Westford St.....Term expires 1906

Office, Engine House, Middle Street.

Assistant Engineers

JAMES F. NORTON First Asst , 22 Ames St.....Term expires 1907

GEORGE F. SALMON, 91 Mt. Washington St.....Term expires 1906

EDWARD MELOY, 30 Fort Hill AveTerm expires 1906

CHARLES STACKPOLE, 105 Liberty Street.....Term expires 1906

JAMES F. NORTON.....Clerk of the Board

The Clerk is chosen by the Engineers.

Operator of Fire Alarm Telegraph

HENRY C. FERNALD.....Central Station

Committee on Fire Department

Aldermen FAIRWEATHER and HAYES; Councilmen ALLARD,
WHITE and SHEA.

BOARD OF POLICE OF THE CITY OF LOWELL

Office, Police Station.

FRANK B. DOWChairman

FRANK B. DOW.....Term expires 1906

FISHER H. PEARSON.....Term expires 1908

LAFOREST BEALSTerm expires 1910

Appointed by the Mayor under the provisions of Chap. 428 of the
Acts of 1894 and Chap. 187 of the Acts of 1895.

JOSEPH SMITH.....Clerk

Regular meetings at the Police Station every Tuesday evening at 8
o'clock.

Telephone, 101

WILLIAM B. MOFFATT, Superintendent of Police
 REDMOND WELCH, Deputy Superintendent
 WILLIAM R. KEW, Captain
 JAMES BROSNAN, Lieutenant
 HUGH DOWNEY, Lieutenant
 JAMES E. WEBSTER, Lieutenant
 MARTIN CONNORS, Sergeant
 JOHN B. CROWLEY, Sergeant
 JOHN FREEMAN, Sergeant
 DAVID J. DONALDSON, Inspector, Criminal
 CHARLES LAFLAMME, Inspector, Criminal
 JOHN A. WALSH, Inspector, Criminal
 MARTIN MAHER, Inspector, Criminal
 MICHAEL E. McDONALD, Inspector of Claims

Keeper of Lockup

WILLIAM B. MOFFATT

Constables

ADAMS, THOMAS E	LAPORTE, ELIE C
BATES, FREDERICK A	MAGUIRE, JOHN E
BRADLEY, CHARLES F	MANSUR, EZRA E
BREAULT, JEAN L	McMANUS, JOHN
EMERY, DANIEL	McCLUSKEY, WM. J
GATELY, BERNARD F	PINDER, JOHN J
GERRISH, ENOCH	SAVITHES, JORDAN S
HARTWELL, CHARLES C	SLATTERY, EDWARD F
LAPIERRE, JOSEPH S	SMITH, WALTER S
TURCOTTE, ISIDORE	

POLICE COURT

Telephone, 575

SAMUEL P. HADLEY.....	Standing Justice
JOHN J. PICKMAN.....	Special Justice
FREDERICK A. FISHER.....	Special Justice
JAMES F. SAVAGE.....	Clerk
EDWARD W. TRULL.....	Assistant Clerk
EDWARD F. SLATTERY.....	Probation Officer

HEALTH COMMISSIONER

Telephone, 101

WILLIAM B. MOFFATT.....Office, Police Station

Chosen by concurrent vote by nomination commencing in the Board of Aldermen, in January or February. Ord., Chap. 41, Sect. 1.

BOARD OF HEALTH

Telephone, 549-2

WM. B. JACKSON, M. D.,.....Term expires first Mon. in Feb. 1905
 WM. C. DOHERTY, Secretary.....Term expires first Mon. in Feb. 1906
 LEONARD HUNTRESS, M. D.(Chn)Term expires first Mon. in Feb. 1907

One member appointed annually by the Mayor and Board of Aldermen in January for term of three years from first Monday in February. Chap. 332, Sect. 1, Acts of 1895.

BOARD OF REGISTRARS OF VOTERS

JOHN P. FARLEY, Chairman

JOHN P. FARLEY.....Term expires May 1, 1906

CORNELIUS F. SULLIVAN.....Term expires May 1, 1907

ALBERT J. BLAZONTerm expires May 1, 1908

GIRARD P. DADMAN, City Clerk, Ex-Officio.

Revised Laws, Chap. 11, Sect. 25.

One member appointed annually in March or April for three years from the first day of May next ensuing and until his successor is appointed and qualified.

FENCE VIEWERS

WILLIAM A. ARNOLD

JOHN VINCENT

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord., Chap. 41, Sec. 1.

FIELD DRIVERS

FRANK FOX

WILLIAM G. BUMPS

JAMES E. WEBSTER

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord., Chap. 41, Sect. 1.

POUND KEEPER

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord., Chap. 41, Sect. 1.

SEALER OF WEIGHTS AND MEASURES

JAMES R. FULTON

Appointed by the Board of Aldermen by nomination in March or April. Revised Laws, Chap. 62, Sect. 18, Ord. Chap. 41, Sect. 2.

INSPECTOR OF MILK, VINEGAR and OLEOMARGARINE

THOMAS O. ALLEN.....Office, City Hall

Appointed by the Board of Aldermen by nomination in January or February. Ord., Chap. 41, Sect 2.

INSPECTOR OF ANIMALS

WALTER A. SHERMAN.....Office, 340 Central Street

Appointed by the Mayor and Board of Aldermen annually in March, subject to approval of Chief of Cattle Bureau. Revised Laws Chap. 90, Sect. 12, Acts of 1902, Chap. 116.

INSPECTOR OF PROVISIONS

JOHN M. FARRELL

Appointed by the Mayor and Board of Aldermen

INSPECTORS OF PETROLEUM OIL

THOMAS O. ALLEN

EDWARD S. HOSMER

Appointed by the Mayor and Aldermen. Revised Laws, Chap. 102, Sect. 109.

INSPECTOR OF BOILERS

BARTHOLOMEW SCANNELL

Revised Laws Chap. 105, Sect. 7.

FISH WARDEN

GEORGE T. SPENCE

Appointed by the Mayor and Aldermen. Revised Laws, Chap. 91, Sect. 54

**SUPERINTENDENT OF CITY SCALES--MEASURER OF WOOD
AND BARK--INSPECTOR OF BALED OR BUNDLED
HAY--AT CITY SCALES**

GEORGE F. NOONAN

Office at City Scales, Rear of Police Station.

Appointed by the Board of Aldermen in January or February. Ord.
Chap. 46, Sect. 1 ; Chap. 21, Sect. 1.

**MEASURERS OF WOOD AND BARK BROUGHT BY WATER OR
RAILROAD CARS INTO THE CITY**

JOHN F. BATEMAN

Appointed by the Board of Aldermen in January or February. Ord.
Chap. 46, Sect. 1.

MEASURERS OF WOOD AND BARK

COBURN, CLARENCE G
FENTON, ABRAM
FULLER, GEORGE B
GILMORE, ROBERT J
GRIFFIN, WARREN T
HALL, OSCAR A
HUMPHREY, J. F

LINSCOTT, HIRAM E
McPHETRES, SAMUEL A
MURPHY, THOMAS J
NOONAN, GEORGE F
SNELL, ORA M
STANLEY, HARRY L

Appointed by the Board of Aldermen in January or February. Ord.
Chap. 46, Sect. 1.

MEASURERS OF GRAIN

FENTON, ABRAM
HARTWELL, GEO. W
LAZELLE, FRANK W
LIVINGSTON, WM.
McPHETRES, SAMUEL A
MURPHY, THOMAS J
MULLANEY, JOHN J

RYAN, ARNOLD J
SMITH, LORENZO E
SULLIVAN, JOHN B
WILLIAMS, HENRY J
WILSON, FRANKLIN T
YARNOLD, RICHARD

Fees—2½ mills a bushel for measuring. Appointed by the Board of
Aldermen in January or February. Ord. Chap. 41, Sect. 2.

SURVEYORS OF LUMBER

ALLEN, MELANCTHON M
BATEMAN, JOHN F
CASEY, CLIFFORD B
COBURN, CLARENCE G
ERWIN, JAMES
FENTON, ABRAM
FORD, SETH

FULLER, GEORGE B
MAYBERRY, OLIVER W
McAULEY, KENNETH
McDONALD, MURDOCK B
McLEOD, MURDOCK K
McPHEE, HARRY
McPHERSON, ARTHUR I

FLANDERS, CHARLES S
FLEMING, GEORGE A
GALLUPE, ALLISON
GILMAN, ALBERT I
HALL, OSCAR A
HARTWELL, GEO. W
HUMPHREY, J F
LAWRENCE, C F
LAZELLE, FRANK W
LINSCOTT, HIRAM E
MARTIN, GEORGE
McPHETRES, SAMUEL A

MURPHY, THOMAS J
NEALE, AUSTIN J
PRATT, BLANCHARD E
SANFORD, W A
SLOAT, ELBRIDGE L
SMITH, LORENZO E
TRULL, FRED N
WHITNEY, GEO. W
WIGGIN, BURTON H
WILSON, FRANKLIN T
WOODWORTH, A B Jr
YARNOLD, RICHARD

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord. Chap. 41, Sect. 1.

SURVEYORS OF PLASTERING, BRICK OR STONE WORK AND PAINTING

BATEMAN, JOHN F
BROOKS, HENRY O
SMITH, MELVIN B

FAVOR, WM A
OSGOOD, ORIN F
SNELL, ORA M

Appointed by the Board of Aldermen in January or February. Ord. Chap. 41. Sect. 2.

WEIGHERS OF HAY AND OTHER ARTICLES

BEALS, LAFOREST
BROWN, F L
BUCKMINSTER, ROLLIN
CADY, BYRON F

CADY, GEO. L Jr
COBURN, CLARENCE G
MARTIN, CHAS. G
McPHETRES, SAMUEL A

FENTON, ABRAM
FITZ GIBBONS, WM. T
HARTWELL, GEO. W
HARRIS, MARTINA
HUMPHREY, J F
KENNEY, JOHN P.
LAZELLE, FRANK W
LARKIN, M J
LIVINGSTON, WM.
MORSE, ROBT. A
MULLANEY, JOHN J

MURPHY, THOMAS J
NOONAN, GEO. F
O'BRIEN, EVERETT
RYAN, ARNOLD J
SMITH, LORENZO E.
SULLIVAN, JOHN B
WILLIAMS, HENRY J
WILSON, FRANKLIN T
WOLFF, ABRAHAM
YARNOLD, RICHARD

Appointed by the Board of Aldermen in January or February. Ord.
Chap. 21, Sect. 1.

WEIGHERS OF COAL

BUCKMINSTER, ROLLIN
CAWLEY, WM. F
CAWLEY, CATHERINE A
CROTTY, MARY E
CADY, BYRON F.
CADY, GEO. L Jr
CONLAN, M. BLANCHE
DREWETT, EDWARD
FENTON, ABRAM
GORMLEY, HARRIET E
GRIFFIN, WARREN T
HOSMER, SAMUEL
HUNKING, SIDNEY F
BEALS, LAFOREST

HARTWELL, GEO. W
LIVINGSTON, WM. E
McPHETRES, SAMUEL A
MOODY, GEO. H
MORSE, ROBERT A
MULLANEY, JOHN J
MURPHY, THOMAS J
QUINN, JOHN P
RUSHWORTH, CAARLES B
RYAN, ARNOLD J
SMITH, LORENZO E
STANLEY, HARRY L
WASHINGTON, GEORGE

BOARDMAN, BLANCHE G

VIEIRA, JOHN R

KENNEY, JOHN P

WILSON, FRANKLIN T

LANNAN, JAMES F

WOLFF, ABRAHAM

LAZELLE, FRANK W

YARNOLD, RICHARD

MARTIN, CHAS. G

Appointed by the Board of Aldermen in January or February. Ord.
Chap. 41, Sect 2.

SCHOOL COMMITTEE FOR 1905.

WILLIAM W. DUNCAN.....President
ARTHUR K. WHITCOMBSecretary

MEMBERS

- Ward 1—WILLIAM W. DUNCAN.....Term expires 1905
Tel. 662-2, Office, 21 Hildreth Building
- Ward 2—JOHN J. HANLON.....Term expires 1905
Tel. 944-12. 169 Broadway
- Ward 3—ANDREW S. WOOD.....Term expires 1906
598 School Street
- Ward 4—WILLIAM F. REGAN.....Term expires 1905
Tel. 417-2 79 Kinsman Street
- Ward 5—EUGENE C. QUEENAN.....Term expires 1906
54 Pond Street
- Ward 6—HARRY SWANN.....Term expires 1906
94 Beech Street
- Ward 7—ANDREW J. SWAPP.....Term expires 1905
Tel. 330. 307 Pawtucket Street
- Ward 8—CHARLES W. TAYLOR, M. D.....Term expires 1906
Tel. 903-5. 17 Kirk Street.
- Ward 9—HUGH WALKER, D. D. S.....Term expires 1905.
Tel. 189-13. 3 Wymans Exchange.

STANDING COMMITTEES

- 1 ON TEACHERS AND SALARIES—Messrs. Swapp, Duncan and Regan.
 - 2 ON BOOKS AND SUPPLIES—Messrs. Hanlon, Taylor, Swann, Wood and Walker.
 - 3 ON EVENING SCHOOLS—Messrs. Wood, Swapp, Taylor, Swann and Hanlon
 4. ON HIGH SCHOOL—Messrs. Duncan, Swapp, Taylor, Queenan and Regan
 5. ON EVENING DRAWING SCHOOLS—Messrs. Taylor, Duncan and Walker
 6. ON MUSIC—Messrs. Queenan, Wood and Hanlon
 7. ON REPORTS—Messrs. Walker, Wood and Hanlon
 8. ON ACCOUNTS—Messrs. Swann, Duncan and Queenan
 9. ON SCHOOL HOUSES AND HYGIENE—Messrs. Walker, Regan and Swann
 10. ON RULES—Messrs. Regan, Queenan and Swapp
-

ASSIGNMENT OF SCHOOLS

- MR. DUNCAN, Ward 1—High, Edson, Eliot, Kirk Street, Cottage Street
- MR. HANLON, Ward 2—Green, Worthen Street, Cheever Street, Morrill, Morrill Kindergarten
- MR. WOOD, Ward 3—Lincoln, Howard Street, Grand Street, Plain Street, Lincoln and Plain Street Kindergartens
- MR. REGAN, Ward 4—High, Butler, London Street, Weed Street, Agawam Street, Carter Street, Lyon Street, Agawam Street and Chapel Street Kindergartens

- MR. QUEENAN, Ward 5—High, Charles Street, Central Street, Ames Street, Fayette Street, Charles Street Kindergarten
- MR. SWANN, Ward 6—Varnum, West Sixth Street, Tenth Street, Lakeview Avenue, Billings Street, Varnum Kindergarten
- MR. SWAPP, Ward 7—High, Bartlett, Pawtucket, Training, Cross Street, Cabot Street, New Moody Street, Lexington Avenue, Pawtucket and Bartlett Kindergartens
- MR. TAYLOR, Ward 8—High, Highland, Franklin, Dover Street, Powell Street, Pine Street, Middlesex Village, Franklin, Dover and Pine Street Kindergartens
- MR. WALKER, Ward 9—Moody, Pond Street, High Street, Sycamore Street, Moody Kindergarten

Assignment of Evening Schools

- MR. WOOD—High, Edson, Railroad Street
- MR. SWAPP—Bartlett, Green, Cheever, Pawtucket
- MR. SWANN—Varnum, Aiken Avenue, Moody, Colburn
- MR. TAYLOR—Mann, Worthen
- MR. HANLON—Butler, Franklin

Superintendent of Public Schools

ARTHUR K. WHITCOMB.....Office, City Hall
Telephone, 566-4

Office Hours—One hour after the forenoon session of the schools, and from 2 to 3 o'clock on Saturday afternoon.

Truant Commissioners

GEO. F. STURTEVANT

WILLIAM F. THORNTON

JAMES KELLY

CAMILE ROUSSIN

Telephone 506-4

OFFICE—Third Floor in City Hall

Office Hours—Saturday, 2 to 3 o'clock, p. m. Other days 4 to 5 p. m., except during the summer vacation, when the office will be open from 9 to 10 o'clock a. m.

Regular Meetings of the School Committee

January	31	July.....	25
February.....	28	August.....	29
March.....	28	September	26
April.....	25	October.....	31
May.....	31	November.....	28
June.....	27	December.....	26

CHARTER AMENDMENTS. ACTS OF 1896

CHP. 415.

AN ACT TO AMEND THE CHARTER OF THE CITY OF LOWELL.

Be it enacted, etc., as follows :

Section 1. All executive powers which are now by law vested in the City Council of the City of Lowell, or either branch thereof, shall hereafter be vested in and exercised by the Mayor of said city except as hereinafter otherwise provided.

Sect. 2. The mayor may suspend or remove any executive or administrative officer except as hereinafter provided, for such cause as he shall deem sufficient, and shall set forth in the order of suspension or removal his reasons therefor, provided that no removal shall be made upon partisan grounds. The order of suspension or removal shall not take effect until it is approved by the City Council voting by yeas and nays. The City Council may, by a two-thirds vote in each branch, voting by yeas and nays, remove any of said officers without the consent of the Mayor ; provided, however, that nothing contained in this section shall apply to any of the following departments, namely : the School Committee, the Police Commission, the Water Board, the Overseers of the Poor, or the Trustees of the Public Library.

Sect. 3. There shall be a department of supplies, and all material and supplies for the city shall be purchased by the chief or head of such department, subject to the approval of the Mayor. So far as is practicable, purchases shall be after public advertisement and under contract approved by the Mayor. All bills for material and supplies shall show the date of purchase, date of delivery, the unit of price, the quality and quantity of articles purchased and received, the number and date of the order for purchase, and if the purchase is under contract, the number and date of the contract, and shall be entered in full in an invoice book, which shall always be open to public inspection. The chief of this de-

partment shall be elected by the qualified voters of the city voting at the annual municipal election, and shall hold his office for the next municipal year thereafter, subject to the provisions of section two of this act.

Sect. 4. The Mayor shall cause to be kept a record of all his official acts, and to aid him in his official duties may appoint one or more clerks.

Sect. 5. The heads of the several departments and offices shall have the power to appoint and employ and to discharge all subordinate officers and employees in their respective departments; and they shall keep a record, subject to inspection, of all so appointed and employed and of all discharged, and in all cases of discharge the grounds therefor; provided, however, that no removals shall be made upon partisan grounds.

Sect. 6. The heads of the several departments and offices shall have the general charge and management of all matters pertaining to their respective departments, and shall make and execute all contracts necessary therefor, except for the purchase of material and supplies; but every contract made as aforesaid in which the amount involved exceeds three hundred dollars shall be approved by the Mayor before going into effect; provided that nothing in this section shall be construed to prevent the City Council, by ordinance, from transferring any of the duties imposed upon an appointed head of a department by this act or by ordinance, excepting the purchase of material and supplies, to another head of a department or board or commission.

Sect. 7. Neither the City Council nor either branch thereof, nor any committee or member thereof, shall directly or indirectly take part in the employment of labor, the purchase of material, the construction, alteration or repair of any public works or other property, or in the care, custody or management of the same, or in general in the expenditure of public money, or in the conduct of the executive or administrative business of the city, except as may be necessary for defraying the contingent and incidental expenses of the City Council, or of either branch thereof; nor shall they or either of them take part in the making of contracts.

Sect. 8. No sum appropriated for a specific purpose shall be expended for any other purpose; and no expenditure shall be made and no liability shall be incurred by or on behalf of the city until the City Council has duly voted an appropriation sufficient to meet such expenditure or

liability, together with all prior unpaid liabilities which are payable therefrom, except that after the expiration of the financial year and before the making of the regular annual appropriations, liabilities payable out of the regular appropriations may be incurred to an amount not exceeding one-sixth of the total of the appropriation made for similar purposes in the preceeding year; provided, however, that nothing herein contained shall be construed to restrict or limit the School Committee in any expenditure which it is now or may be hereafter authorized to make under any general law of the Commonwealth, or to restrict or limit payments on account of the permanent or temporary debt, or such as are required by law to be made to the Commonwealth.

Sect. 9. All revenues and all monies accruing to the City of Lowell from any source whatever, except trust funds and the revenues of the Water Department, shall, when collected or paid into the treasury, be carried to one general account, to be known as the General Treasury Fund; and all appropriations by or on behalf of said city, except from trust funds and on account of the Water Department, shall be from such fund and as provided in section ten of this act.

Sect. 10. All bills or other claims, before they are finally certified by the Auditor or paid, shall pass the inspection of a committee of the City Council on accounts. Said committee shall consist of one member of the Board of Aldermen and two members of the Common Council, to be elected annually by ballot by the body they respectively represent. Said committee may report any such bill or claim to the City Council, with their reasons therefor, and no bill or claim so reported shall be passed by the Auditor, or be paid without the consent of the Council. Said committee may require the opinion of the City Solicitor as to the legality of a bill or other claim.

Sect. 11. A yea and nay vote of the members of the City Council shall be required to pass any order or vote involving the expenditure or appropriation of the public monies, or involving any debt or liability, and said vote shall be entered upon the records of each branch of the City Council.

Sect. 12. Less than a quorum of either branch of the City Council, or of the School Committee, or of the Board of Overseers of the Poor, may adjourn to a fixed day earlier than the next regular meeting, and

shall have power to compel the attendance of absent members in such manner as the City Council may by ordinance provide.

Sect. 13. All acts or parts of acts and all ordinances of the City of Lowell inconsistent herewith are hereby repealed and annulled; provided, that no act or ordinance heretofore repealed shall thereby be revived; and provided, also, that nothing in this act shall be taken to prohibit the City Council from abolishing any department, board, office or commission created by ordinance.

Sect. 14. The question of the acceptance of this act shall be submitted to the qualified voters of the City of Lowell at the annual State election in the present year, and the affirmative votes of a majority of the voters present and voting thereon shall be required for such acceptance. If so accepted, so much thereof as provides for the election of a Chief of the Department of Supplies shall take effect at the next annual municipal election, and the act shall take full effect on the first Monday of January in the year eighteen hundred and ninety-seven. [Approved May 16, 1896.]

ACTS OF 1897

[CHAP. 95.]

AN ACT RELATIVE TO THE DUTIES AND POWERS OF CERTAIN OFFICERS OF THE CITY OF LOWELL.

Be it enacted, etc., as follows:

Section 1. The City Council of the City of Lowell, and each branch thereof, shall have and exercise all the power and authority relative to the election or appointment of city officers, or the confirmation of appointments to office, which were vested in them prior to the enactment of

section one of chapter four hundred and fifteen of the acts of the year eighteen hundred and ninety-six.

Sect. 2. The Chief of the Fire Department of said city shall be elected by concurrent vote of both branches of the City Council.

Sect. 3. The City Council shall by ordinance determine what officers shall be the heads of the various departments of the City Government. The head of the department of supplies may sell or dispose of the personal property of the city, upon the recommendation of the Mayor and of the head of the department to which such property belongs, except the products of the City Farm, which the superintendent of said farm shall have the right to dispose of.

Sect. 4. All ordinances of said city inconsistent herewith are hereby annulled, and all acts or parts of acts inconsistent herewith are hereby repealed.

Sect. 5. This act shall take effect upon its passage. [Approved February 20, 1897.]

ACTS OF 1898

[CHAP. 173.]

AN ACT RELATIVE TO APPOINTMENTS IN THE FIRE DEPARTMENT OF THE CITY OF LOWELL.

Be it enacted, etc., as follows:

Section 1. The Chief Engineer of the Fire Department of the City of Lowell may, on the recommendation of the Board of Engineers, appoint as members of the permanent force, or as call men, without civil service-examination, any person who has served as call or substitute call-man in said service for three or more successive years prior to the passage of this act.

Sect. 2. Said Chief Engineer shall have the power to discharge all subordinate officers and employees in the Fire Department of said city, except the members of said board, and with the approval of said board, to appoint and employ all such officers and employees.

Sect. 3. All acts and parts of acts inconsistent herewith are hereby repealed.

Sect. 4. This act shall take effect upon its passage. [Approved March 15, 1898.]

SEC. 7, CHAP. 26, REVISED LAWS.

No election of a city officer by a municipal body or board shall be valid unless made by a viva voce vote, each member who is present answering to his name when it is called by the clerk or other proper officer, stating the name of the person for whom he votes, or that he declines to vote. The clerk or other proper officer shall record every such vote.

ORDINANCES OF THE CITY OF LOWELL.

PASSED SINCE 1894.

AN ORDINANCE AUTHORIZING THE CITY TREASURER TO ISSUE REGISTERED CERTIFICATES, NOTES OR BONDS IN EXCHANGE FOR CERTIFICATES, NOTES OR BONDS PAYABLE TO BEARER.

Be it ordained, etc., as follows:

*The City Treasurer may, in accordance with the provisions of Section 5 of Chapter 77 of the Public Statutes, at the request of the owner or holder of any bond, promissory note or certificate of indebtedness of the city of Lowell, at any time while more than one year remains before the principal of such bond, note or certificate is payable, issue in exchange therefor a bond, note or certificate of same effect, payable to the owner or holder by name.

The City Treasurer may also, under like conditions, issue registered certificates, in substitution for any mutilated, defaced or indorsed bonds, notes or certificates; and where a bond, note or certificate of any issue has been lost or destroyed, the City Treasurer, under the direction of the joint standing committee on finance, may issue in place thereof a new bond, note or certificate of the same effect.

The City Auditor, as well as the City Treasurer, shall keep a register of the dates, numbers and amounts of all bonds, notes and certificates issued by the City Treasurer, showing to whom they were issued, when they are payable, and if issued in exchange, for what they were substituted. [Approved May 12, 1896.]

*Now Sect. 4, Chapt. 73, Revised Laws.

AN ORDINANCE AMENDING SECTION THIRTEEN OF CHAPTER ONE OF THE REVISED ORDINANCES SO AS TO PROVIDE THAT THE SALARIES AND COMPENSATION OF CITY OFFICERS WHEN ONCE ESTABLISHED SHALL CONTINUE UNTIL RE-ESTABLISHED OR CHANGED.

Be it ordained, etc., as follows :

Section 13 of Chapter I of the Revised Ordinances is hereby amended by striking out between the word "year" in the third line of said section and the word "provided" in the sixth line thereof, the following words: "for the year commencing on the first Monday of January next ensuing : and no change of salary shall be made to take effect during the time for which said salary was established," and inserting in place thereof the following: "provided that when such salaries and compensation shall have been once established, they shall continue until re-established or changed in pursuance of the provisions of this section ; and," so that said section as amended shall read as follows :

Section 13. The salaries and compensation of city officers shall be established in the month of December and after the annual municipal election shall have been held, in each year ; provided, that when such salaries and compensation shall have been once established, they shall continue until re-established or changed in pursuance of the provisions of this section ; and provided that in case any new office shall be created the salary of said newly created office may be fixed at any time ; and the salaries or compensation fixed for the payment of said officers shall be in full for all services performed by them by virtue of their offices ; and all sums of money received by them from any and every source, in discharge of said services, during any quarter of the fiscal year, shall at the expiration of said quarter be by them paid over or accounted for to the City Treasurer. [Approved May 12, 1896.

AN ORDINANCE REGULATING THE WEIGHING AND MEASURING OF CERTAIN ARTICLES PURCHASED BY THE CITY.

Be it ordained, etc., as follows :

All supplies of hay, grain, straw, coal, and any other material purchased for the use of the city or any department thereof exceeding one

hundred pounds in weight and usually weighed, shall be weighed on the city scales, and all wood purchased for said city shall be measured by the City Measurer of Wood, and no bills shall be paid by the City Treasurer or approved by any committee for such article so furnished the city, unless the certificate of said weigher or measurer shall accompany or be attached to said bill. [Approved May 12, 1896.]

AN ORDINANCE TO PREVENT THE PLACING OF ASHES, GLASS, CROCKERY, ETC., IN OR ON THE PUBLIC STREETS OR WAYS.

Be it ordained, etc., as follows :

Section 1. Any person who shall put or place, or cause to be put or placed, in or upon any street, lane or alley, or other public place in this city, any ashes, glass, crockery, scrap iron, nails, tacks or any other article which would be liable to injure the feet of children or animals, or the tires of bicycles or other vehicles which have wheels with rubber or pneumatic tires, shall be deemed guilty of a misdemeanor.

Sect. 2. Any person violating the provisions of the preceding section or who is guilty of the misdemeanor therein described, shall be liable to a fine of not less than two dollars or more than twenty dollars for each offence. [Approved Oct. 9, 1896.]

AN ORDINANCE AMENDING SECTIONS ONE AND NINE OF CHAPTER TWENTY OF THE ORDINANCES OF THE CITY OF LOWELL.

Be it ordained, etc., as follows :

Section 1. That section 1, of Chapter 20 of the Ordinances of the City of Lowell be and the same is hereby amended by inserting after the word "engineer" in the second line of said section, the words "a first

assistant engineer and three other," and by striking out the word "four" in the second line of said section, and by inserting after the word "removed" in the sixteenth line of said section, the words "the first assistant engineer shall be appointed by the Mayor and Aldermen in the month of March or April, or whenever a vacancy occurs, and he shall enter upon the discharge of the duties of his office on the first day of May of the year in which appointed, if appointed for a full term prior to May of any year, and he shall hold said office for a term of three years from said first day of May, and until his successor is appointed, or he is removed; and if appointed after the first day of May in any year, he shall enter upon the duties of said office forthwith and shall continue therein until the expiration of the full term as existing at the time of said appointment, or until removed," and by inserting between the words "said" and "assistant" in the seventeenth line of said section, the word "other" and by inserting after the word "engineer" in the twenty-eighth line of said section, and before the word "shall" in the twenty-ninth line of said section, the words "and first assistant engineer," so that said section shall read as follows:

Section 1. The Fire Department shall consist of a Chief Engineer, a First assistant engineer, who shall perform such duties as may be required of him by the Chief Engineer, and three other assistant engineers and as many enginemen, hosemen, hook and laddermen and other persons, to be divided into companies, as the number of engines and other fire apparatus of the city shall from time to time require; the Chief Engineer shall be appointed by the Mayor and Aldermen in the month of March or April, and whenever a vacancy occurs, and he shall enter upon the discharge of the duties of said office on the first day of May of the year in which appointed, if appointed for a full term prior to May of any year, and he shall hold said office for the term of three years from said first day of May or until he is removed; and if appointed after the first day of May of any year, he shall enter upon the discharge of the duties of said office forthwith, and shall continue therein until the expiration of the full term as existing at the time of his said appointment, or until removed. The First Assistant Engineer shall be appointed by the Mayor and Aldermen in the month of March or April, and whenever a vacancy occurs, and he shall enter upon the discharge of the duties of his office on the first day of May of the year in which appointed, if appointed for a full term prior to May of any year, and he shall hold said office for a term of three years from said first day of May and until his successor is appointed or he is removed; and if appointed after the first day of May in any year, he shall enter upon the duties of said office forthwith, and shall continue therein until the expiration of the full term as existing at

the time of his said appointment, or until he is removed ; and the appointment of said other assistant engineers shall be made by the Mayor and Aldermen in the month of March or April annually, and whenever a vacancy occurs, and they shall hold their respective offices for the term of one year from the first day of May succeeding their appointment, or until others are chosen ; all other members of the Fire Department shall be nominated by the Board of Engineers, and their names sent to the Mayor and Aldermen, and when by them appointed they shall be members of the Fire Department ; provided, that vacancies may be filled at any time, and that the Mayor and Aldermen may at any time remove any and all of said officers or members ; except that the Chief Engineer and First Assistant Engineer shall not be removed without a hearing and cause shown thereat. No person shall be appointed a member of the Fire Department who does not sustain a good moral character and who is not a citizen of the City of Lowell.

Sect. 2. This ordinance shall take effect upon its passage. [Approved Nov. 27, 1896.

AN ORDINANCE IN RELATION TO AN ORDINANCE ON OPENINGS AND
EXCAVATIONS IN STREETS AND IMPOSING A PENALTY.

Be it ordained, etc., as follows :

Section 1. No person, firm or corporation shall dig up, make any excavation in, or in any manner change or interfere with the surface or grade of any street for the purpose of laying water, gas or sewer pipes or railway tracks, or for any other purpose, without first giving notice to the Superintendent of Streets, which notice shall state specifically the time when work will be commenced and the probable time within which it shall be completed.

Sect. 2. When any opening or excavation shall be made in any street in pursuance of Section 1, the Superintendent of Streets, by himself or by a servant or agent appointed by him for that purpose, shall see that the surface of such streets is left in good order and condition for

public travel thereon. The expense for labor and material used in closing and covering such excavation shall in all cases be borne by the party causing the same to be made.

Sect. 3. Said Superintendent shall, when about to build a new sewer or repair an old one, notify all the abutters on that part of the line of said sewer when he proposes to do work, so that said abutters may enter said sewer. He shall notify all abutters, when about to construct a new street, at least four weeks before beginning work, and when about to make a new surface of any street, at least two weeks before beginning work, shall notify the Superintendent of Lamps and Water Board and all persons authorized to place any obstructions in such street, and shall require and see that all said departments or persons having any work to be done in the street so designated, shall do all such work before the surface of such street is again prepared for and opened to public travel, and after the completion of the work then done in such street, shall not permit any department or person who shall have been so notified, for the space of two years, to again disturb the surface of such street or way within the area of such previous disturbance, except in case of obvious necessity, to be verified in writing to, and approved by the Mayor, and except in cases of tracks or leaks in pipes, sewers or wires.

Sect. 4. Any person, firm or corporation who shall dig up, make any excavations, or in any way change or alter the grade or surface of any accepted street, without giving the notice mentioned in Section 1 of this ordinance, shall be punished by a fine not exceeding twenty dollars.

Sect. 5. All ordinances and parts of ordinances, resolutions and orders of the City Council inconsistent herewith, are hereby repealed. [Approved November 27, 1896.]

AN ORDINANCE CREATING THE OFFICE OF SUPERINTENDENT OF COMMONS AND PROVIDING FOR THE ELECTION OF SUCH OFFICER.

(Superceded by Chap. 28, Revised Laws.)

Be it ordained, etc., as follows :

Section 1. There shall be chosen by concurrent vote of both branches of the City Council in the month of January, 1898, a Superintendent of Commons ; and in the month of January in each year thereafter, the City Council by concurrent vote of both branches shall elect a Superintendent of Commons who shall hold his office for one year and until his successor is chosen, but said officer may be removed from office at any time by a two-third's vote of both branches of the City Council voting by yeas and nays. Any vacancy which may occur in said office shall be filled in like manner by concurrent vote of the City Council for the remainder of the unexpired term.

Sect. 2. Said Superintendent of Commons shall be the head of the Department of Commons, and shall have the care and control of all the commons and parks of the city, and of all the property connected with said department, and shall have the general care and management of all matters pertaining to said department ; shall make and execute all contracts necessary therefor, except the purchase of material and supplies, but every contract made as aforesaid in which the amount involved exceeds three hundred dollars, shall be approved by the Mayor before going into effect. [Approved June 18, 1897.

AN ORDINANCE AMENDING SECTION TWELVE OF CHAPTER FIVE OF THE REVISED ORDINANCES.

Be it ordained, etc., as follows :

That section 12 of the Revised Ordinances of the City of Lowell be and the same is hereby amended by striking out the words " nor on either

side of Westford Street from the westerly line of Grand Street to the easterly line of Royal Street for a distance of fifty feet back from either line of Westford Street. [Approved July 21, 1897.]

AN ORDINANCE AMENDING SECTION FIFTEEN, CHAPTER THIRTY-NINE
OF THE REVISED ORDINANCES OF THE YEAR EIGHTEEN HUNDRED
AND NINETY-FOUR.

Be it ordained, etc., as follows:

That section 15, Chapter 39, of the Revised Ordinances of the year 1894, be and is hereby amended by striking out of the seventh line the word "forty-third," and inserting in place thereof the word "forty-fifth." [Approved July 21, 1897.]

AN ORDINANCE REGULATING HAWKERS AND PEDDLERS.

Be it ordained, etc., as follows:

Section 1. No person shall hawk or peddle, sell or expose for sale within said city any of the articles enumerated in Section 1 of Chapter 68* of the Public Statutes, until he has been duly licensed by and has recorded his name and residence with the Board of Police of the City of Lowell, and has been assigned a number by said board, to be worn in such manner as said board may prescribe. Provided, however, that the foregoing provisions shall not apply to any other person than the one named in the license.

Sect. 2. No person hawking, peddling or selling, or exposing for sale any of the articles enumerated in Section 1 of Chapter 68* of the Public Statutes, shall cry his wares to the disturbance of the peace and comfort of the inhabitants of the city.

*Now Chapter 65, Sect. 15, 16, of the Revised Laws.

Sect. 3. No hawker or peddler shall carry or convey any of the articles enumerated in Chapter 68* of the Public Statutes in any manner that will tend to injure the public health, or disturb the public peace or comfort, nor otherwise than in vehicles and receptacles which have printed on them in letters and figures at least two inches in height the name of the person selling and the number given him by the Board of Police.

Sect. 4. Whoever violates any of the provisions of the preceding sections of this ordinance shall be liable to a penalty of not more than twenty dollars for each offence. [Approved July 29, 1897.*]

AN ORDINANCE TO AMEND SECTION EIGHTEEN OF CHAPTER SIX OF
THE CITY ORDINANCES RELATING TO THE HITCHING OF HORSES
TO LAMP POSTS.

Be it ordained, etc., as follows:

Section 18 of Chapter 6 of the City Ordinances is hereby amended by striking out all after the word "any" in the third line thereof and inserting instead thereof the words "lamp posts maintained by the city," so that said section as amended shall read as follows:

Sect. 18. No owner, driver or other person having the care or ordering of a vehicle shall hitch or fasten the horse or horses attached thereto to any lamp post maintained by the city. [Approved January 1, 1898.]

AN ORDINANCE AUTHORIZING THE CITY TREASURER TO PRESCRIBE
THE SYSTEM OF BOOKKEEPING FOR CERTAIN DEPARTMENTS AND
OFFICERS RECEIVING MONEY BELONGING TO THE CITY AND PRO-
VIDING FOR MORE FREQUENT RETURNS OF SUCH MONEY TO THE
CITY TREASURY.

Be it ordained, etc., as follows:

Section 1. All departments and officers of the City Government ex-

cept the City Treasurer, whose official duty requires the receipt of money belonging to the city, shall keep such books and records relating to the same as shall be prescribed by the City Treasurer.

Sect. 2. The heads of each department and officers receiving money for the city shall remit to the Treasurer as often as once in each month any balance that may be in the possession of such department or officer belonging to the city, except in case when the time for such payment into the City Treasury is prescribed by statute.

Sect. 3. The Joint Committee on Accounts shall annually in connection with the annual examination of the accounts of the City Treasurer, examine, investigate and audit the books and accounts of all departments and officers receiving money for the city, and said committee shall make report of such examination to the City Council.

Sect. 4. All heads of departments and officers whose official duty requires the rendering of bills to individuals, cities or towns for charges of any nature, shall hereafter deliver all such bills to the City Treasurer for collection through his office.

Sect. 5. Section 9 of Chapter I of the Revised Ordinances and all ordinances and parts of ordinances inconsistent herewith are hereby repealed. [Approved January 1, 1898.

AN ORDINANCE PROVIDING FOR ESTIMATES FOR APPROPRIATIONS AND
FOR OTHER PURPOSES.

Be it ordained, etc., as follows:

Section 1. At the beginning of each municipal year and not later than the third Tuesday in January the Mayor shall make and transmit to the City Council an estimate of the expenditures required for the year. Such estimate shall be framed and itemized so as to show separately:

Par. 2. The amounts required by each department, office, board, commission or other sub-division of the executive branch of the government, and so far as may be practicable for the sub-division of the work of each department.

Par. 3. The salary or compensation of each officer, deputy, assistant, clerk, or employee of the city not classed as a laborer. The amounts required for labor shall, when practicable, be stated separately from those for materials and supplies.

Par. 4. Such estimate shall be in such form as to show in parallel columns, opposite each item, the amount paid for the previous year, and the amount unexpended at the close of such year.

Sect. 2. The Mayor shall make, or cause to be made, and shall transmit to the City Council with the estimate required by the preceding section :

Par. 2. An itemized estimate of the revenues of the year from all sources except taxation of real and personal property and polls.

Par. 3. A statement of the balance unpaid at the close of the previous year on account of temporary loans, and the amount due by financial years, as unpaid taxes on real and personal property and polls.

Par. 4. An itemized statement of the debt, with interest becoming due during the year, and the margin available for loans within the debt limit for the year.

Par. 5. An itemized statement of all orders, etc., of the City Council involving expenditures which have not been appropriated for. In all cases the finances of the water service shall be shown separately.

Sect. 3. All regular annual appropriations shall be for and only ap-

plicable to the liabilities incurred during the year in which they are made, any form of phraseology in the order, resolution or vote providing for the same, to the contrary notwithstanding.

Par. 2. It shall be the duty of the Auditor to close all regular annual appropriation accounts with the last secular day in December of the year for which the appropriations are made, and to credit the general treasury fund account or accounts with the water service, as the case may be, with the balance to the credit of such appropriations; and thereafter no payment shall be made under such appropriations. He shall promptly report to the City Council the amount of each balance thus credited, and amount available in the general treasury fund, and the account with the water service, for the expenditures of the current year not otherwise appropriated.

Par. 3. All claims, accounts and bills against the City of Lowell under such appropriations remaining unpaid at such date, shall be numbered consecutively, and be entered by the Auditor in such order, in a permanent book of record, to be known as the register of claims, so as to show the name of the claimant, the amount claimed and allowed, the nature of the service and the action had thereon. The Auditor shall transmit to the City Council, on or before the first regular meeting night in February, of either branch of the City Council, a schedule of such claims with a condensed statement of the nature of each claim, and the action had thereon.

Sect. 4. The several estimates and statements called for by this ordinance shall on their receipt by either branch of the City Council be referred, without other action, to the Joint Committee on Appropriations.

Par. 2. The Committee on Appropriations shall consist of the Chairman and two additional members of the Board of Aldermen and the President and three additional members of the Common Council.

Section 6 of Chapter 1 of the Ordinances of the City of Lowell is hereby repealed.

Par. 3. Said committee shall have access to all or any of the records and official papers of the city, shall have power to require from any officer or employee of the city such additional statement or statements relating to the expenditures and revenues of the city as it may deem essential, and to summon any officer or employee of the city to be present at any designated meeting of said committee; and to remain in attendance until discharged by the committee; and any officer or employee who shall fail or refuse to comply with such request, order or summons, may be reported to the City Council or either branch thereof, for such action as it may have the power to take and see fit to exercise.

Sect. 5. The Committee on Appropriations shall make a final report in print, not exceeding two hundred copies, to the City Council or either branch thereof, on or before the fifteenth day of February of each year unless granted further time by the City Council.

Sect. 6. All ordinances or parts of ordinances conflicting with this ordinance are hereby repealed. [Approved January 1, 1898.

AN ORDINANCE PROVIDING FOR THE APPOINTMENT OF AN INSPECTOR OF WIRES AND DEFINING THE DUTIES OF SUCH OFFICER, IN ACCORDANCE WITH CHAPTER FOUR HUNDRED AND FOUR, ACTS OF 1890.*.

Be it ordained, etc., as follows:

Section 1. Within thirty days after the passage of this Ordinance, there shall be appointed by the Mayor, subject to confirmation by the Board of Aldermen, an Inspector of Wires for the City of Lowell, who shall enter upon the duties of his office immediately, and shall hold said office, unless sooner removed, until the first day of February, 1901, and prior to the first day of February, 1901, and prior to the first day of February of every third year thereafter, there shall be appointed in like

*Now Chapter 122, Revised Laws.

manner an Inspector of Wires who shall hold his office during a term of three years and until his successor is appointed, unless sooner removed in the manner prescribed by law.

Sect. 2. Said Inspector of Wires shall perform the duties prescribed by Section 3, Chapter 404 of the Acts of 1890,* and such other duties as are or may be hereafter prescribed by the laws of the Commonwealth or the ordinances of the city. He shall annually in the month of January make a report to the City Council of the business of his office for the year ending the thirty-first day of December next preceding. [Approved July 15, 1898.

AN ORDINANCE RELATING TO THE PERMANENT REPAIRS ON STREETS
AND THE PLACING OF UNDERGROUND SERVICES THEREIN; ALSO
TO THE NECESSARY REPAIRS OF SAME.

Be it ordained, etc., as follows:

Section 1. That before any street is paved with granite, concrete or other paving, macadamized or otherwise put in permanent repair by the city, the owners of land abutting on such street shall be notified at least four weeks previous to the time when such permanent improvements are to be commenced, that all underground services, whether for sewer, water, gas, electrical or other connections, shall be constructed and placed in said street previous to the date set for the making of said permanent improvements.

Sect. 2. That all corporations or individuals having services laid in said street, or intending or desiring to construct the same, whether for gas, electric, telephone, telegraph, or for any service of whatsoever nature, or who shall desire to renew or repair services already constructed, shall be notified by the posting of a notice at the City Hall of the intention of the city to so repair such street, and by a notice which shall be published for six consecutive days in one morning and one evening newspaper printed in the city of Lowell, the last publication of said notice to

be at least three weeks previous to the time stated for making said permanent improvements.

Sect. 3. That when any street has been so paved, macadamized, or otherwise put in permanent repair, it shall not be opened or torn up for the placing of any new underground construction of any nature whatsoever during five years next succeeding the date in said published and posted notices stating the intention of the city to place said street in permanent repair; provided, however, that in case repairs to any service become necessary, the same may be made after a permit has been granted by the Board of Aldermen, and said repairs shall be made under the supervision of the Superintendent of Streets. In case of leakage of gas or water pipes, the same may be repaired at once by the Gas Company or Water Board, and the surface of the street placed in a condition satisfactory to the Superintendent of Streets.

Sect. 4. Wherever on said street there may be unimproved land, and where no sewer, gas, water or other necessary services have been constructed, the same shall be laid and constructed, to a point at least two feet beyond the outside line of the sidewalk on said street, one each of the services mentioned for gas, water and sewer connections, for each fifty feet of frontage of the said land on said street, or at such distances as may be agreed upon by the owner of said land and the Superintendent of Streets. In case of neglect of the owner or of a corporation or individual to construct the same, said service for sewer, water and gas connections may be constructed by the city, and shall be paid for by the parties to whom rightfully belongs the construction of the same.

Sect. 5. Any violation of the foregoing conditions in regard to the digging up of streets shall be punished by a fine of not less than twenty dollars (\$20).

Sect. 6. All ordinances and parts of ordinances inconsistent herewith are hereby repealed. [Approved August 5, 1898.]

AN ORDINANCE PROVIDING FOR THE APPOINTMENT OF A SUPERINTENDENT AND ASSISTANT SUPERINTENDENT OF STATE AID.

Be it ordained, etc., as follows:

Section 1. Within thirty days after the passage of this ordinance there shall be appointed by the Mayor, subject to confirmation of the Board of Aldermen, a Superintendent of State Aid and an Assistant Superintendent of State Aid for the City of Lowell, who shall enter upon the duties of their offices immediately and shall hold said offices, unless sooner removed, until the first day of February, 1899; and prior to the first day of February, 1899, and prior to the first day of February of every year thereafter, there shall be appointed in like manner a Superintendent of State Aid and an Assistant Superintendent of State Aid, who shall hold their offices during a term of one year and until their successors are appointed, unless sooner removed in the manner prescribed by law.

Sect. 2. Said Superintendent of State Aid shall disburse State Aid and City Aid under the direction of the Mayor and Board of Aldermen as prescribed by *Chapter 279 of the Acts of 1893, *Chapters 279 and 301 of the Acts of 1894, *Chapter 279 of the Acts of 1896, *Chapter 561 of the Acts of 1898, or any other laws of the Commonwealth, or that may be hereafter prescribed by the ordinances of the city. He shall annually, in the month of January, make a report to the City Council of the business of his office for the year ending on the thirty-first of December next preceding.

Sect. 3. Said Assistant Superintendent of State Aid shall perform such duties as may be prescribed by the Superintendent of State Aid. [Approved September 27, 1898.

*Now, Chapt. 79, Revised Laws.

AN ORDINANCE AMENDING SECTION SIX OF CHAPTER NINE OF THE
REVISED ORDINANCES OF THE CITY OF LOWELL.

Be it ordained, etc., as follows:

That Chapter 9 of the Revised Ordinances of the City of Lowell be amended by striking out Section 6 and substituting therefor the following:

Sect. 6. The City Treasurer shall receive and have the care and custody of all sums of money paid the city by persons for the perpetual care of lots in any of the city cemeteries, and give the vouchers of the city therefor, and money so received shall constitute a special fund to be known as the "Cemetery Fund for the perpetual care of lots." The Treasurer shall not receive a sum of money less than one hundred dollars (\$100.00) for the perpetual care of lots in any of the city cemeteries or public burial grounds. The Treasurer shall notify the Superintendent of the cemetery of all such payments, together with the description of the lots and graves on account of which such payments are made, and annually, at such times as the Trustees of Public Burial Grounds request, shall pay over to them four per centum as interest upon all sums so paid to and receipted by him. The Treasurer shall invest the moneys of this fund in securities in which by law the funds of savings banks may be invested, and pay the amount of interest realized thereon into the City Treasury. [Approved October 11, 1898.

AN ORDINANCE RELATING TO THE CONSTRUCTION AND REPAIR OF
BUILDINGS.

Be it ordained, etc., as follows:

Section 1. Before the repair, erection, construction or material alteration of any building, the owner, architect or builder thereof shall file with the Superintendent of Buildings a statement in writing, giving the intended location of such building, its dimensions, materials, manner of construction and estimated cost. If such a building is to be repaired,

erected or materially altered within the fire limits of the city, such owner architect or builder shall, in addition to the statement aforesaid, submit for examination full specifications and plans of the proposed repairs, buildings or alterations; the owner or contractor shall also sign an agreement that the proposed work shall be done in accordance with the description set forth in such plans, specifications and statement, and all such matters and things connected with such work shall be done in strict compliance with this chapter. If it appears from said statement, plans and specifications that the building to be erected, altered or repaired will conform to the provisions of this chapter, so far as applicable thereto, then the Superintendent of Buildings shall issue a permit. No person shall repair, construct or materially alter any building without such permit.

Sect. 2. The Superintendent of Buildings shall furnish suitable blanks upon which applications shall be made; and such applications shall be recorded by the Assessors in a book provided for the purpose, each page of which shall be a duplicate of such application for the erection, construction or material alteration of any building in the City of Lowell after the passage of this ordinance.

Sect. 3. This ordinance shall take effect upon its passage. [Approved December 29, 1898. (Amended 1901.)]

AN ORDINANCE RELATING TO ASSESSMENT OF TAXES IN THE CITY OF
LOWELL.

Be it ordained, etc., as follows:

Chapter 3 of the Revised Ordinances of 1894 is hereby amended by striking out all after Section 1 of said chapter, and substituting in place thereof the following:

Sect. 2. The Board of Assessors shall annually, in the month of January, or as soon as practicable thereafter, organize, by choosing one of

their number to act as Chairman ; said Chairman shall not receive extra compensation, and all members of the Board shall devote their whole time to the service of the city.

Sect. 3. It shall be the duty of the Assessors of Taxes to complete their assessment and place the list of taxes in the hands of the Collector of Taxes on or before the first day of September, annually; and they shall, on or before the first day of September, annually, indicate on said list the residence of the several taxpayers for that year and the year next preceding.

Sect. 4. When any tax shall be abated in whole or in part by the Assessors of Taxes, they shall make a record thereof in a book to be kept by them for that purpose, which record shall contain the names of all persons whose taxes may be so abated, and the reasons for such abatement ; and they shall also annually, in the month of January, make out and transmit to the City Council a full report of the work of their Board, said report to show the total valuation of the city, amount of real estate, amount of personal estate, total corporation valuation in detail, total valuation in bank stock, street-watering assessment, number of polls, name, amount and reason of any abatement of taxes and such other items as may be of interest to the public. Said figures to be in a column parallel to a column containing the figures of the preceding year.

Sect. 5. The Assessors shall annually, on the thirty-first day of December, report to the Auditor, all abatement of taxes made by them during the year ending on said day, distinguishing the abatements made on the different years' taxes, and whether abated before or after collection.

Sect. 6. The Assessors shall have full power to hire as many temporary clerks, not to exceed six, as may be necessary to assist them in the performance of their duties, the compensation of said clerks not to exceed two dollars and fifty cents per day, and they shall only be employed during the months of May to September inclusive. Provided, however, that permanent clerks, not to exceed two, one to be known as Chief Clerk, may be employed the whole year at such compensation as the Board may determine. They shall also have the power to employ six temporary assistants during the months of May and June for the purpose of obtain-

ing the list of polls and incidental personal property, compensation not to exceed three dollars per day. Said Assistant Assessors shall be appointed by the Mayor, subject to confirmation by the Board of Aldermen and Common Council.

Sect. 7. This ordinance shall take effect upon its passage. [Approved February 28, 1899.]

AN ORDINANCE ESTABLISHING AN INSPECTION OF WIRES DEPARTMENT,
AND GOVERNING THE SAME.

Be it ordained, etc., as follows :

Section 1. An Inspection of Wires Department is hereby established, of which the Inspector of Wires shall be the head.

Sect. 2. The Inspector of Wires shall have supervision of all electric and other wires erected upon, over or under any street, way or building, and of every wire within any building where such wire is designed to carry an electric current, and shall have authority over, and shall inspect such wires, their condition, attachments, insulation, supports and appliances ; he shall require all persons and corporations owning or operating wires to place and arrange all posts, arms, fixtures, insulating supports, attachments and appliances so as to secure safety to life and property, and shall see that the provisions of *Chapter 404 of the Acts of 1890 and all other laws, ordinances and regulations relating to electric and other wires are strictly enforced, and shall give prompt notice to any person or corporation owning or operating any such wire, when in his judgment the same is unsafe, or is not placed, kept and maintained in accordance with the requirements of said chapter or the provisions of any other law, ordinance or regulation.

Sect. 3. Said Inspector shall, at least once in each year, inspect all posts supporting electric or other wires upon or over any street or build-

*Now Chapt. 122 Revised Laws.

ing, and all supports of such wires when attached to buildings, and ascertain if said posts and supports are kept in proper condition and not weakened by decay or other causes; and in case any person or corporation owning, leasing, or operating wires shall neglect or refuse to maintain said supports in proper condition for safety, the Inspector shall cause said fixtures and supports to be put in proper condition at the expense of the person or corporation owning or operating the same, after first giving the person or corporation due notice in writing of his intended action.

Sect. 4. It shall be the duty of the Inspector to cause to be removed all dead wires of whatever nature, attached to buildings, if, in his judgment, they are in a dangerous condition or liable to become dangerous to life or property, and he shall notify in writing the person or corporation owning, leasing or operating such wires of his desire for the removal of any wire, and give them at least ten days in which to comply with the requirements, except in cases in which, in his judgment, there is immediate liability of injury to person or property from the wire and in all such cases the notice shall require their removal forthwith. In the event of the refusal of any person or corporation to take proper action, the Inspector may cause the work to be done and the expense to be charged to the owners.

Sect. 5. No person or corporation shall allow any piece of wire to be left on the surface of any street or sidewalk, or to permit unused fixtures, coils or loose ends of wire to remain attached to any cross arm or post more than twenty-four hours without special permission.

Sect. 6. Every person or corporation operating electric or other wires over or under any street, way or building in the city, upon request of the Inspector shall furnish within fifteen days thereafter accurate lists of the posts or other supports of their wires, the location of conduits and manholes, with information as to location, where, and what service is rendered, whether telegraphic, telephonic, power or electric lighting, and in the latter case, whether arc or incandescent current is used.

Sect. 7. The said Inspector, upon request, shall also be furnished by any person or corporation operating or owning electric wires with such information as to kind, size and tested strength of supporting

or service wires, the maximum volts used, together with such other information as may be necessary to the faithful and effectual discharge of his duties.

Sect. 8. All wires, appliances and apparatus in the interior of public buildings or on private premises which are intended for the transmission of electricity, either for isolated lighting or power, or to be connected with an outside circuit, shall be made, placed and arranged, and at all times kept safe to the satisfaction of the Inspector; and said Inspector may at all proper and reasonable times have access to such wires and apparatus.

Sect. 9. In no case shall a current of electricity be connected to any system of wiring or apparatus intended to be used for power or lighting, without permission being first obtained and a written permit granted by the Inspector of Wires; the jurisdiction of the Inspector is intended to include all public and private electrical systems that are now and may hereafter be installed in the City of Lowell.

This ordinance is not intended to govern or call for the inspection of electric bell systems, private or public telephones inside of public or private buildings, or the interior apparatus or boxes of the fire alarm or police system of the city.

Sect. 10. No person or corporation shall change the position or make additions to any wiring system, or install any new work or electrical apparatus without first notifying the Inspector, and he given full opportunity to inspect the same before such work is completed; and when any electric wires designed to carry an electric light or power current are to be concealed, the Inspector must be notified before work is commenced, and he shall give his permission and approval for all such work and connections immediately, unless in his judgment such apparatus or wiring endangers life or property or is not in accordance with the laws and ordinances, or in conformity with the established insurance rules.

Sect. 11. The Inspector shall require that the established rules and regulations of the National Board of Fire Underwriters shall be complied with, both for outside and interior construction.

Sect. 12. It shall be the duty of the Inspector of Wires to carry out any order of the Mayor and Board of Aldermen on any matters referred to him by them, coming under the laws or ordinances, and all questions of right and authority shall be determined by the Mayor and Board of Aldermen upon any appeal or refusal of any person or corporation to comply with the requirements of the Inspector and the laws and ordinances.

Sect. 13. The Inspector of Wires shall keep a record of all inspections and permits in a book provided for the purpose and this book shall be open to inspection (at all reasonable times) by any interested parties.

The Inspector shall make monthly reports of his doings to the Mayor and Board of Aldermen, and an annual report to the City Council.

Sect. 14. Whoever violates or fails to comply with any of the provisions of this ordinance after being duly notified in writing by the Inspector shall forfeit and pay for each offence not less than ten or more than twenty dollars.

Sect. 15. The Inspector of Wires shall be on duty eight hours per day, from 9 A. M. till 5 P. M. each regular working day, and at such other times as cases of emergency may require, and shall receive such compensation as may be determined by the City Council. Said Inspector shall devote his whole time to the service of the city, and shall engage in no other business or calling. [Approved July 26, 1899.]

AN ORDINANCE TO PROVIDE FOR THE ELECTION OF A CITY PHYSICIAN
AND DEFINING HIS DUTIES.

Be it ordained, etc., as follows :

Section 1. There shall be chosen immediately after the approval of this ordinance and thereafter annually in the month of March or April,

and whenever a vacancy occurs, by concurrent vote of both branches of the City Council, a City Physician, who shall enter upon the duties of his office on the first day of May in each year and until his successor is chosen, unless sooner removed therefrom in the manner provided by law.

Sect. 2. It shall be the duty of the City Physician to attend upon all patients under the care of the city authorities at the City Farm or Police Station ; to make a report annually in April to the City Council covering the service rendered by him during the previous year. In case of an alarm by any infectious or contagious disease to give to either branch of the City Council or any committee thereof all such professional advice and council as they may request of him, and generally to perform such other professional services as may reasonably be required of him by the Mayor or the City Council, or the Superintendent of the City Farm.

Sect. 3. Chapter 12 of the Revised Ordinances is hereby repealed.
[Approved June 27, 1900]

AN ORDINANCE PROHIBITING HEAVY TEAMING AND TRUCKING UPON
THE SPEEDWAY PORTION OF THE PAWTUCKET BOULEVARD.

Be it ordained, etc., as follows :

Section 1. The driving or drawing of heavy wagons, carts, trucks or similar vehicles used for the purposes of transportation of stone, lumber, coal, ice, express packages, groceries, or other merchandise requiring for the transportation of the same a vehicle exceeding in weight a family carriage, buggy, carry-all or similar vehicle used principally for pleasure driving or recreation, is hereby prohibited upon that portion of Pawtucket Boulevard commonly called the Speedway ; provided, however, that this prohibition shall not apply to any vehicle used for the purpose of transporting any article or material necessary for the improvement or repair of said speedway, or of any portion of said boulevard, or of the structures connected with the water plant in said boulevard.

Sect. 2. Any person who shall violate any provision of Section 1 of this ordinance shall be punished by a fine not exceeding twenty dollars for each offense. [Approved July 31, 1900.]

AN ORDINANCE PROVIDING FOR THE PRINTING OF THE UNION LABEL
ON ALL PRINTING FOR THE CITY OF LOWELL.

Be it ordained, etc., as follows:

Section. 2. That all printed matter for the City of Lowell shall hereafter bear the imprint of the Union Label of the Allied Printing Trades Council of Lowell, Mass.

Sect. 2. That in calling for bids for city printing hereafter, the Chief of the Department of Supplies shall make stipulation in accordance with Section 1 of this ordinance.

Sect. 3. This ordinance shall take effect upon its passage. [Approved December 15, 1900.]

AN ORDINANCE ESTABLISHING THE OFFICE OF CLERK OF COMMITTEES.

Be it ordained, etc., as follows:

Section 1. There shall be a Clerk of Committees, to be chosen by concurrent vote of both branches of the City Council as soon as may be after the enactment of this ordinance, who shall enter upon the duties of his office immediately after his election, and hold the same for a period of three years from and after January 1, 1901, and until his successor is elected and qualified. Thereafter the City Council shall, in the month of

January following the expiration of each three-year term, choose a Clerk of Committees who shall hold office for three years. Such Clerk of Committees shall receive such compensation as the City Council shall determine.

Sect. 2. He shall make a proper record in books kept for the purpose, of all proceedings and transactions, and keep a calendar of all meetings of the committees of which he is clerk. He shall perform such other duties and services, in making estimates and computations, drawing orders and reports, and rendering assistance, as such committees shall require.

Sect. On the request of the Chairman of any committee, the said Clerk of Committees shall authorize the City Messenger to notify all committee members of the time and place of meeting.

Sect. 4. This ordinance shall take effect upon its passage. [Passed December 18, 1900.

AN ORDINANCE RELATING TO ADVERTISING BILLS AND POSTERS.

Be it ordained, etc., as follows:

Section 1. No person, firm or corporation shall distribute or cause to be distributed in or upon any street, way, common, or place within the limits of the City of Lowell, or post or cause to be posted on any billboard, fence, wall or structure, or shown in windows, any card, circular, bill lithograph, or advertisement, whatsoever, containing any cut photograph, painting or pictorial representation of any kind, for the purpose of advertising or calling attention to any show, circus, play or exhibition, whether given, or to be given, within or without the City of Lowell, without having first submitted the same to the Supt. of Police and obtaining his approval thereof, and of such distributing or posting. And no such card aforesaid, bill or advertisement shall be distributed or posted, as aforesaid, without having attached thereto or printed or pasted

thereon, a statement that it has been approved by the Supt. of Police of Lowell, and the date of such approval.

Sect. 2. Whoever violates the provisions of this ordinance, shall, on conviction thereof, be punished by a fine not exceeding twenty dollars for each offence.

Sept. 3. This ordinance shall take effect upon its passage. [Approved December 27, 1901.

(Amended ordinance 1902.)

AN ORDINANCE AMENDING AN ORDINANCE ENTITLED "AN ORDINANCE RELATING TO THE CONSTRUCTION OF BUILDINGS."

Be it ordained, etc., as follows :

That an ordinance entitled, "Relating to the construction and repair of buildings," be and the same is hereby amended by striking out the third section thereof and inserting in place thereof the following sections :

Sect. 3. Any person who shall violate any provisions of Section 1 of this ordinance shall be punished by a fine not exceeding twenty dollars (\$20.00) for each offence.

Sect. 4. This ordinance shall take effect upon its passage. [Approved December 27, 1901.

AN ORDINANCE RELATING TO THE APPROVAL OF BILLS AND CLAIMS
PAYABLE FROM THE APPROPRIATIONS FOR INCIDENTALS.

Be it ordained, etc., as follows :

Section 1. Every bill and claim against the city which, if correct, would be chargeable to the Appropriation for Incidentals, shall, before being passed by the Committee on Accounts, be submitted to the Mayor, who shall examine the same and endorse thereon a statement that he does or does not object to the payment of the same or of any of the items thereof. He shall then return such bill or claim to the City Auditor or the Committee on Accounts, and if he objects to the payment of said bill or claim, in whole or in part, he shall submit to said Auditor or to said committee with said bill when so returned, a specific statement in writing signed by him of his objections thereto and his reasons for such objection. [Approved December 27, 1901.

AN ORDINANCE RELATING TO SHADE TREES ON THE PUBLIC STREETS
OF THE CITY OF LOWELL.

Be it ordained, etc., as follows :

First. That no person or corporation shall be allowed to remove any shade trees on the streets of the City of Lowell without first filing a petition requesting authority for the removal of the same from the City Council of said City.

Second. All petitions for the removal of shade trees on the streets of Lowell shall be referred to the Aldermanic members of the Committee on Streets of the City of Lowell.

Third. That the Aldermanic members of the Committee on Streets shall constitute and be known as the Committee on Shade Trees.

Fourth. That on the presentation of a petition for the removal of a shade tree as aforesaid and after its reference to the Committee on Shade Trees, they shall cause a notice to be posted on the tree by the Superintendent of Streets or by some person authorized by him, said notice to set forth that a petition for the removal of the tree upon which the notice has been posted has been filed; said notice shall also give the time and place where all persons interested can be heard at a public hearing by said committee. The above notice shall be posted on the tree at least seven days before the time set for the hearing.

Fifth. That the Superintendent of Streets or the Committee on Shade Trees shall not authorize the removal of any shade tree in the City of Lowell except in accordance with the preceding sections. In case where the Superintendent of Streets or the Committee on Shade Trees are satisfied that public necessity by reason of danger to life and property requires the immediate removal of a shade tree, the Superintendent or said Committee may authorize such removal without complying with the conditions named in the preceding sections.

Sixth. Any person or corporation violating this ordinance or any provisions of the same, shall be punished for each offence by a fine not exceeding twenty dollars.

Seventh. All ordinances and parts of ordinances inconsistent herewith are hereby repealed. [Approved December 27, 1901.

AN ORDINANCE AMENDING AN ORDINANCE ENTITLED "RELATING TO
ADVERTISING BILLS AND POSTERS.

Be it ordained, etc., as follows:

That the Ordinance entitled "Relating to advertising bills and posters," passed by the City Council and approved by the Mayor December 27, 1901, be and is hereby amended by striking out all after the enacting clause and inserting in place thereof, the following:—

Section 1. No person, firm or corporation shall distribute, or cause to be distributed in or upon any street, way, common or place within the limits of the City of Lowell, or post or cause to be posted on any billboard, fence, wall, or structure, or shown in windows, any card, photograph, painting or pictorial representation of any kind for the purpose of advertising or calling attention to any burlesque show, whether given or to be given within or without the limits of the City of Lowell; nor shall any person, firm or corporation distribute or cause to be distributed within the limits of the City of Lowell any pamphlet or circular containing advertisements therein or aphrodisiac cures, without having first submitted the same to the Superintendent of Police and obtaining his approval of such posting and distributing. And no such card, bill, pamphlet, circular or advertisement aforesaid shall be posted or distributed without having attached thereto, or printed or pasted thereon, a statement that it has been approved by the Superintendent of Police of the City of Lowell, and the date of such approval.

Sect. 2. No person, firm or corporation shall throw, deposit, drop or leave, nor cause to be thrown, deposited, dropped or left in the highway or upon the doorsteps or within the hallway of any dwelling house within the limits of the City of Lowell, any sample of medicinal or toxic substance, either in package or bulk and shall leave such sample of medicinal or toxic substance in a dwelling house only with the consent and approval and in the possession of an adult occupant.

Sect. 3. Whoever violates the provisions of this Ordinance shall, on conviction thereof, be punished by a fine not exceeding twenty dollars for each offence.

Sect. 4. This Ordinance shall take effect upon its passage. [Approved 1902.]

AN ORDINANCE REGULATING THE OPERATION OF MOTOR CYCLES IN
THE CITY OF LOWELL.

Be it ordained, etc., as follows:

Section 1. No motor cycle shall be ridden upon the streets, avenues

boulevard, parks or commons of the City of Lowell, unless the motor of such cycle shall be fully covered and provided with mufflers designed expressly to deaden the noise of a motor cycle.

Sect. 2. Any person who violates the provisions of the preceding section, shall be punished by a fine not exceeding ten dollars for each offence.

Sect. 3. This ordinance shall take effect upon its passage. [Approved 1902.

AN ORDINANCE OFFICIALLY DESIGNATING CITY INSTITUTION BUILDINGS
IN CHELMSFORD STREET AS THE LOWELL CITY HOSPITAL AND
ALMSHOUSE.

Be it ordained, etc., as follows:

That the City Institution buildings located in Chelmsford Street be designated and hereafter known as The Lowell City Hospital and Alms-house.

This ordinance shall take effect upon its passage. [Approved April 10, 1903.

AN ORDINANCE AMENDING SECTIONS 12 AND 16 OF CHAPTER 39 OF THE
REVISED ORDINANCES.

Be it ordained, etc., as follows:

That Section 12 of Chapter 39 of the Revised Ordinances be amended by striking out the words "board of aldermen" in the fifth and sixth

lines of said section, and inserting instead thereof the words "Superintendent of Streets;" and that Section 16 of said chapter be amended by striking out the words "Superintendent of Streets," and by striking out the word "they" in the fourth line and inserting instead thereof the words "board of aldermen;" so that said sections shall read as follows:

Sect. 12. No person shall break or dig up the ground in any street, townway, highway, or common and public passageway, in the city, nor erect any staging for building thereon, or pile or deposit thereon any earth, bricks, lumber or other building material, without a written license from the Superintendent of Streets, and without faithfully complying with the conditions of such license.

Sect. 16. In all cases in which license may be given by the Superintendent of Streets to obstruct any highway, street, townway, or passageway as described in the twelfth section of this chapter, the Board of Aldermen may impose such reasonable conditions and limitations with regard to the erection of barricades, the maintaining of lights and the taking of other precautions for the security of travellers and passengers as they shall consider necessary.

This Ordinance shall take effect upon its passage. [Approved October 9, 1903.]

AN ORDINANCE AUTHORIZING THE SUPERINTENDENT OF POLICE TO PARTITION OFF STREETS, WAYS OR SIDEWALKS FOR THE PROTECTION OF THE PUBLIC.

Be it ordained, etc., as follows:

Section 1. For the protection and safety of the public, the Superintendent of Police is authorized to partition off with rope, wire or other material, any portion or portions of any street, way or sidewalk within the limits of the City of Lowell on the occasion of any public observance,

celebration or procession, or upon any other occasion when, in the opinion of the said Superintendent of Police, it becomes necessary.

Sect. 2. This ordinance shall take effect upon its passage. [Approved October 9, 1903.]

Population, Legal Voters, Etc., by Wards.

Wards	Census 1900	Precincts	REGISTERED VOTERS									VOTES FOR		
			Dec. 1903			Nov. 1904.			Dec. 1904			MAYOR		
			City Election			State Election			City Election			1904		
			Males	Females	Total	Males	Females	Total	Males	Females	Total	Casey	Hill	Parker
1	8 248	1	498	18	516	474	17	491	489	17	506	174	249	2
		2	441	16	457	452	14	466	471	14	485	208	207	0
		3	370	8	378	363	6	369	367	6	373	174	157	1
			1309	42	1351	1289	37	1326	1327	37	1364	556	613	3
2		1	272	8	280	317	8	325	330	8	338	182	95	3
		2	378	14	392	360	11	371	366	11	377	280	55	1
		3	490	6	496	449	6	455	466	6	472	355	57	2
	10 281		1140	28	1168	1126	25	1151	1162	25	1187	817	207	6
3		1	537	21	558	509	21	530	513	21	534	305	156	2
		2	610	10	620	638	8	646	649	8	657	132	407	6
		3	660	15	675	696	10	706	702	10	712	117	466	5
	10 052		1837	46	1883	1843	39	1882	1864	39	1903	554	1029	13
4		1	485	1	486	473	1	474	485	1	486	281	133	6
		2	529	2	531	522	2	524	530	2	532	351	127	2
		3	669	0	669	661	0	661	682	0	682	524	97	1
	9 315		1683	3	1686	1656	3	1659	1697	3	1700	1156	357	9
5		1	391	10	401	381	8	389	399	8	407	230	130	1
		2	543	12	555	534	9	543	544	9	553	383	113	0
		3	440	6	446	427	6	433	438	6	444	344	62	0
	8 973		1374	28	1402	1342	23	1365	1381	23	1404	957	305	1
6		1	740	68	808	740	65	805	743	65	808	171	478	6
		2	580	17	597	511	17	528	523	17	540	252	215	9
		3	626	20	646	658	18	676	674	19	693	368	209	1
	10 705		1874	105	1979	1909	100	2009	1940	101	2041	791	902	16
7		1	666	11	677	666	11	677	676	11	687	274	307	1
		2	769	71	840	766	66	832	782	66	848	367	320	7
		3	779	24	803	821	24	845	829	24	853	317	391	6
	18 490		2214	106	2320	2253	101	2354	2287	101	2388	958	1018	14
8		1	756	11	767	765	9	774	775	9	784	130	517	8
		2	829	6	835	858	6	864	864	6	870	164	555	15
		3	696	7	703	723	5	728	727	5	732	297	331	8
	9 655		2281	24	2305	2346	20	2366	2366	20	2386	591	1403	31
9		1	518	88	606	532	74	606	532	74	606	242	226	2
		2	640	109	749	639	102	741	639	102	741	260	308	6
		3	876	10	886	865	10	875	881	10	891	424	365	7
	8 709		2024	207	2231	2036	186	2222	2052	186	2238	926	899	15
94 969			15736	589	16325	15800	534	16334	16076	535	16611	7306	6733	108

POPULATION OF THE CITY OF LOWELL.

Year	Population	Year	Population	Year	Population	Year	Population
1828	3,532	1840	20,981	1865	30,990	1890	77,696
1830	6,477	1844	25,163	1866	36,878	1895	84,359
1832	10,254	1846	29,127	1870	40,928	1900	94,969
1833	12,963	1850	33,383	1875	49,688	.....	*
1836	17,633	1855	37,554	1880	59,485	... ..	.....
1837	18,010	1860	36,827	1885	64,107	.....	.....

* Population estimated for 1904 by the State Board of Health, 104,402.

CITY OFFICERS

WHEN ELECTED OR APPOINTED.

“All officers elected or appointed by the City Council, or either branch thereof, shall hold their offices according to the tenure of the same and until their successors are chosen and qualified, unless otherwise provided for.

AGENT OF THE BOARD OF HEALTH.

Appointed by the Board of Health under civil service rules.

ASSESSORS OF TAXES.—Three.

One chosen in the month of January or February by concurrent vote of the City Council for the term of three years. Ordinances, Chapter 3, Section 1.

ASSISTANT ASSESSORS.—Six.

Appointed by the Mayor in March or April, for May and June, subject to confirmation by the City Council. Ordinance approved February 28, 1899.

ASSISTANT ENGINEERS OF THE FIRE DEPARTMENT.—Four.

Appointed by the Mayor and Aldermen in March or April, the first assistant for a term of three years, the others for one year commencing May first. Ordinance approved November 27, 1896.

AUDITOR OF ACCOUNTS.

Chosen by concurrent vote of the City Council in January or February, for one year, commencing the first Monday in April. Ordinances, Chapter 2, Section 1.

ASSISTANT CITY CLERK.

Appointed by the City Clerk, subject to confirmation by the Board of Aldermen. Ordinances, Chapter 8, Section 2.

BOARD OF EXAMINERS OF PLUMBERS.—Three.

One member appointed by the Board of Health for the term of one year, commencing May first. The chairman of the Board of Health and the Superintendent of Public Buildings are members of the Board, ex-officio. Ordinances, Chapter 28, Section 6.

BOARD OF HEALTH.—Three.

One member appointed by the mayor and Aldermen in January for the term of three years, commencing the first Monday in February. Revised Laws, Chapter 75, Section 9.

BOARD OF PARK COMMISSIONERS.—Five.

One member appointed annually by the Mayor with the approval of the City Council for a term of five years from first Monday in May. Revised Laws, Chapter 28.

BOARD OF POLICE.—Three.

One member appointed by the Mayor every two years for the term of six years, commencing the first Monday in June. Chapter 428, Acts of 1894. Chapter 187, Acts of 1895.

CHAIRMAN OF THE BOARD OF ALDERMEN.

Chosen by the Board of Aldermen on the first Monday in January, or as soon thereafter as may be. City Charter, Section 12.

CHIEF ENGINEER OF THE FIRE DEPARTMENT.

Chosen by concurrent vote of the City Council in March or April for the term of three years, commencing May first. Chapter 95, Section 2, Acts of 1897. Ordinance approved November 27, 1896.

CITY CLERK.

Chosen annually by the City Council in convention, as soon after organization as convenient. City Charter, Section 17.

CITY MESSENGER.

Chosen by concurrent vote of the City Council in January for the term of one year, commencing the first Monday in February. Ordinances, Chapter 10, Section 1.

CITY PHYSICIAN.

Chosen annually in March or April by concurrent vote of the City Council for one year, commencing May first. Ordinances, 1900.

CITY SOLICITOR.

Chosen by concurrent vote of the City Council in January or February for the term of one year, commencing March first. Ordinances, Chapter 11, Section 1.

CITY TREASURER AND COLLECTOR OF TAXES.

Chosen annually by the City Council in convention as soon after organization as convenient, for the term of one year commencing April first. City Charter, Section 17. Ordinances, Chapter 9, Section 1.

CIVIL ENGINEER FOR THE CITY.

Chosen by concurrent vote of the City Council in January or February for a term of one year, commencing April first. Ordinances, Chapter 13, Section 1.

CIVIL SERVICE EXAMINERS.—Three.

Appointed by the State Civil Service Commissioners.

CLERK OF COMMITTEES.

Chosen by concurrent vote of the City Council in January, for three years. Ordinances, 1900.

CLERK OF THE COMMON COUNCIL.

Chosen by the Common Council on the first Monday in January, or as soon thereafter as may be. City Charter, Section 14.

CLERKS EMPLOYED IN DEPARTMENTS.

Appointed by heads of departments under civil service rules. Chapter 415, Section 5, Acts of 1896.

CLERK OF WATER BOARD.

Chosen by the Water Board in June for the term of one year. Ordinances, Chapter 45, Section 2.

COMMISSIONERS OF SINKING FUNDS.—Three.

One chosen in December by concurrent vote of the City Council for the term of three years, commencing January first. Revised Laws, Chapter 27, Section 14.

COMMITTEE ON ACCOUNTS.—Three.

On the first Monday in January, or as soon thereafter as may be, one member chosen by the Board of Aldermen from that Board, and two members of the Common Council by said Council. Chapter 415, Section 10, Acts of 1896.

COMMITTEE ON FINANCE.—Five.

On the first Monday in January, or as soon thereafter as may be, one member of the Board of Aldermen, to be elected by that Board, and three members of the Common Council, to be elected by said Council. The Mayor is a member ex-officio. Ordinances, Chapter 1, Section 2.

CONSTABLES.—Four or more.

Appointed by the Mayor and Aldermen in January or February for the term of one year. City Charter, Section 19, Ordinances, Chapter 41, Section 2.

ELECTION OFFICERS.

Appointed by the Mayor and Aldermen in August, for the term of one year, commencing September fifteenth. Chapter 386, Acts of 1905.

FENCE VIEWERS.—Three.

Nominated by the Mayor in January or February and chosen by concurrent vote, commencing in the Board of Aldermen, for the term of one year. Ordinances, Chapter 41, Section 1.

FIELD DRIVERS.—Four or more.

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council, commencing in the Board of Aldermen, for the term of one year. Ordinances, Chapter 41, Section 1.

FIREMEN.

Appointed by the Chief Engineer on recommendation of the Board of Assistant Engineers, under civil service rules. Chapter 178, Acts of 1898.

FISH WARDEN.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Revised Laws, Chapter 91, Section 54.

HEALTH COMMISSIONER.

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council for the term of one year. Ordinances, Chapter 41, Section 1.

INSPECTOR OF ANIMALS.

Appointed by the Mayor and Aldermen in March, subject to the approval of the State Board of Cattle Commissioners, for the term of one year, commencing April first.

INSPECTOR OF BALE OR BUNDLE HAY.

Appointed by the Board of Aldermen in January or February for the term of one year. Ordinances, Chapter 21, Section 1.

INSPECTOR OF BOILERS.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Revised Laws, Chapter 105, Section 7.

INSPECTORS OF THE HEALTH DEPARTMENT.

Appointed by the Board of Health under civil service rules.

INSPECTORS OF PETROLEUM OILS.

Appointed by the Mayor and Aldermen, upon request of five or more citizens. Revised Laws, Chapter 102, Section 109.

INSPECTOR OF MILK, VINEGAR AND OLEOMARGARINE.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chapter 41, Section 2.

INSPECTORS OF PLUMBING.

Appointed by the Board of Health. Ordinances, Chapter 28, Section 8.

INSPECTOR OF PROVISIONS.

Appointed by the Board of Aldermen.

INSPECTORS WATER DEPARTMENT.

Appointed by Water Board under civil service rules.

INSPECTOR OF WIRES.

Appointed by the Mayor and Aldermen in January for the term of three years, commencing February first. Ordinances, 1898.

LIBRARIAN OF THE CITY LIBRARY.

Chosen by the Trustees of the City Library. Chapter 231, Section 5, Acts of 1888.

MAYOR'S CLERK.

Appointed by the Mayor. Chapter 415, Section 4, Acts of 1896.

MEASURERS OF GRAIN.—Two or more.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chapter 41, Section 2.

MEASURERS OF UPPER LEATHER.—Two or more.

Appointed by the Mayor and Aldermen in April, for the term of one year.—Ordinances, Chapter 41, Section 2.

MEASURERS OF WOOD AND BARK.—Two or more.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chapter 46, Section 2.

MEASURERS OF WOOD AND BARK BROUGHT BY WATER OR
RAILROAD CARS INTO THE CITY.—Two or more.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chapter 46, Section 1.

POLICE OFFICERS.

Appointed by the Board of police under civil service rules.

POUND KEEPER.

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council, commencing in the Board of Aldermen, for the term of one year. Ordinances, Chapter 41, Section 1.

PRESIDENT OF THE COMMON COUNCIL.

Chosen by the Common Council on the first Monday in January, or as soon thereafter as may be. City Charter, Section 14

REGISTRARS OF VOTERS.—Three and the City Clerk.

One member appointed by the Mayor and Aldermen in March or April for the term of three years, commencing May first. The City Clerk is a member ex-officio. Revised Laws, Chapter 11, Section 25.

SEALER OF WEIGHTS AND MEASURES.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chapter 41, Section 2.

SECRETARY OF THE OVERSEERS OF THE POOR.

Appointed by the Overseers of the Poor.

SUPERINTENDENT OF THE CITY FARM.

Appointed by the Overseers of the Poor.

SUPERINTENDENT OF THE CITY SCALES.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chapter 21, Section 1.

SUPERINTENDENT OF COMMONS.

Appointed by Board of Park Commissioners.

SUPERINTENDENT OF PUBLIC BUILDINGS.

Chosen by concurrent vote of the City Council in January or February for the term of one year. Ordinances, Chapter 5, Section 1.

SUPERINTENDENT OF SCHOOLS.

Chosen by the School Committee in July or August for the term of one year. Ordinances, Chapter 40, Section 1.

SUPERINTENDENT OF STATE AID AND ASSISTANT.

Appointed by the Mayor and Aldermen in January for the term of one year, commencing February first. Ordinances approved September 27, 1898.

SUPERINTENDENT OF STREETS.

Chosen by concurrent vote of the City Council in January or February for the term of one year. Ordinances, Chapter 39, Section 1.

SUPERINTENDENT OF WATER WORKS.

Chosen by the Water Board in March for the term of one year, commencing April first. Ordinances, Chapter 45, Section 2.

SURVEYORS OF HIGHWAYS.

Chosen by concurrent vote of the City Council in January or February for the term of one year. City Charter, Section 17, Ordinances, Chapter 39, Section 1.

SURVEYORS OF LUMBER.—Four or more.

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council, commencing in the Board of Aldermen, for the term of one year. Ordinances, Chapter 39, Section 1.

SURVEYORS OF PLASTERING, BRICK OR STONE WORK AND PAINTING.—Four or more.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chapter 41, Section 2.

TRUANT COMMISSIONERS.

Appointed by the School Committee. Revised Laws, Chapter 46, Section 12.

TRUSTEES OF THE PUBLIC LIBRARY.—Five and the Mayor.

One member appointed in December by the Mayor and Aldermen for the term of five years, commencing the second Monday in January. The Mayor is a member ex-officio. Ordinances, Chapter 14, Section 2.

TRUSTEES OF PUBLIC BURIAL GROUNDS.—Two and the Mayor.

One member appointed by the Mayor and Aldermen in December for the term of two years, commencing the first Monday in January. The Mayor is a member ex-officio. Chapter 337, Section 2, Acts of 1891.

WATER BOARD.—Four.

One member chosen in January or February by concurrent vote of the City Council for the term of four years commencing the second Monday in March. Ordinances, Chapter 45, Section 1.

WEIGHERS OF COAL.—One or more.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chapter 41, Section 2.

WEIGHERS OF HAY AND OTHER ARTICLES.—Two or more.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chapter 21, Section 1.

CATALOGUE

OF THE

Government of the City of Lowell

IN

Chronological Order of Service.

From Its Institution in 1836, to 1904, Inclusive.

1836.**MAYOR:****ELISHA BARTLETT.****ALDERMEN:**

William Austin, resigned Oct. 10.	Benjamin Walker.
Joseph Tapley, elected November.	Oliver M. Whipple.
Seth Ames.	Alexander Wright.
Aaron Mansur.	

SAMUEL A. COBURN, City Clerk.**COMMON COUNCIL:**

John Clark, President.	Stephen Mansur.
Henry J. Baxter.	John Mixer.
Jonathan Bowers.	Thomas Nesmith.
George Brownell.	David Nourse.
James Cook.	Thomas Ordway.
David Dana.	James Russell.
Erastus Douglass.	John A. Savels.
Josiah B. French.	Sidney Spalding.
Cyril French.	Weld Spalding.
Samuel Garland.	Jonathan Tyler.
Horatio W. Hastings.	Tappan Wentworth.
Horace Howard.	William Wyman.

GEORGE WOODWARD, Clerk, died. ALBERT LOCKE, elected.**1837.****MAYOR:****ELISHA BARTLETT, † '36.****ALDERMEN:**

Seth Ames, *'36.	Joseph G. Kittredge.
John Aiken.	Joshua Swan.
Seth Chellis	Alexander Wright, *'36.

SAMUEL A. COBURN, City Clerk.**COMMON COUNCIL:**

WARD 1.	WARD 4.
Joshua Abbott.	William Baker.
James K. Fellows.	Elijha M. Read.
Jesse Phelps.	Charles H. Wilder.
Walter Wright.	William W. Wyman.
WARD 2.	WARD 5.
William Fiske.	George Brownell, '36.
Thomas Nesmith, '36.	Osgood Dane.
Josiah Osgood.	James Russell, '36.
Joseph Tyler.	Tappan Wentworth, '36.
WARD 3.	WARD 6.
Joseph M. Dodge.	Andrew Bird.
Elisha Huntington, President.	Benjamin H. Gage.
William North.	Jona. T. P. Hunt.
Joseph Tapley.	Abram Tilton.

ALBERT LOCKE, Clerk.

The figures without other marks indicate membership of the Common Council those years. † Mayor that year. * Alderman that year. ‡ President of the Common Council that year.

1838**MAYOR:****LUTHER LAWRENCE.****ALDERMEN:**

Benjamin F. French.
 Charles L. Tilden.
 Oliver M. Whipple, *'36.

George H. Carleton.
 George Brownell, '36, '37.
 Seth Chellis, *'37.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Jesse Phelps, '37.
 Walter Wright, '37.
 Eliphalet Brown.
 Perez Fuller.

WARD 2.

William Fiske, '37.
 Aaron H. Sherman.
 William Upham.
 Henry J. Baxter, '36.

WARD 3.

Thomas Hopkinson.
 Elisha Huntington, †'37, President.
 Horace Howard, '36.
 John Mixer, '36.

WARD 4.

David Dana, '36.
 Perley Hale.
 Benjamin Walker, *'36.
 William Baker, '37.

WARD 5.

Garret J. Bradt.
 Benjamin Wilde.
 Erastus Douglass, '36.
 Rufus Paul.

WARD 6.

Eli Cooper.
 Thomas L. Randlett.
 James L. Foot.
 Calvin Goodspeed.

ALBERT LOCKE, Clerk.**1839.****MAYOR:****LUTHER LAWRENCE. — [Died in April.]****ELISHA HUNTINGTON, † '37, † '38.****ALDERMEN:**

Benjamin F. French, *'38.
 John O. Green.
 Charles L. Tilden, *'38.

George H. Carleton, *'38.
 John Clark, † '36.
 Oliver M. Whipple, * '36, *'38.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Walter Wright, '37, '38.
 Harlin Pillsbury.
 Eliphalet Brown, '38.
 Forrest Eaton.

WARD 2.

Jonathan Tyler, '36.
 John Nesmith.
 Henry J. Baxter, '36, '38.
 Jefferson Bancroft.

WARD 3.

Thomas Hopkinson, '38, President.
 Jacob Robbins.
 John G. Locke.

WARD 4.

Benjamin Walker, *'36, '38.
 Samuel Horn.
 Stephen Carleton.
 Stephen Mansur, '36.

WARD 5.

Tappan Wentworth, '36, '37.
 Lewis McIntire, died Feb., 1840.
 Benjamin Wilde, '38.
 Garret J. Bradt, '38.

WARD 6.

Thomas L. Randlett, '38.
 Joseph S. Holt.
 John L. Fitts.
 Daniel Knapp.

ALBERT LOCKE, Clerk.

1840.**MAYOR:****ELISHA HUNTINGTON, ‡ '37, ‡ '38, † '39.****ALDERMEN:**

Jonathan Tyler, '36, '39.
 John R. Adams.
 Joseph Bedlow.

Harlin Pillsbury, '39.
 Seth Ames, *'36, *'37.
 Stephen Mansur, '36, '39.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Forrest Eaton, '39.
 Sylvanus Adams.
 Henry Patch.
 R. M. Hutchinson.

WARD 2.

Jefferson Bancroft, '39.
 John Nesmith, '39.
 Joseph G. Kittredge, *'37.
 Josiah Osgood, '37.

WARD 3.

Pelham W. Warren, President.
 Abner W. Buttrick.
 Asa Hall.
 Samuel Burbank.

WARD 4.

Ferdinand Rodliff.
 Ethan Burnap.
 Edward F. Watson.
 B. Walker, *'36, '38, '39, died Sept.

WARD 5.

Tappan Wentworth, '36, '37, '39.
 Samuel W. Brown.
 John J. Crane.
 George Dane.

WARD 6.

Daniel Knapp, '39.
 George L. Fitts, '39.
 Joseph Battles.
 Joshua Converse.

ALBERT LOCKE, Clerk, died October. JOHN G. LOCKE, elected October.**1841.****MAYOR:****ELISHA HUNTINGTON, ‡ '37, ‡ '38, † '39, † '40.****ALDERMEN:**

Seth Chellis, *'37, '38.
 Jefferson Bancroft, '39, '40.
 Cyril French, '36.

George H. Carleton, *'38, *'39.
 John R. Adams, *'40.
 John Aiken, *'37.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Henry Patch, '40.
 George Bragdon.
 John W. Holland.
 Arnold Welch.

WARD 2.

William Fiske, '37, '38.
 Erasmus D. Leavitt.
 Jonathan White.
 Nathaniel Wilson.

WARD 3.

Samuel Burbank, '40.
 Nathaniel Critchett.
 Royal Southwick.
 Edward Winslow.

WARD 4.

Ethan Burnap, '40.
 William Livingston.
 John Morrison.
 Edward F. Watson, '40.

WARD 5.

Tappan Wentworth, '36, '37, '39, '40, Pres
 Samuel W. Brown, '40.
 John J. Crane, '40.
 Phineas Whiting.

WARD 6.

Francis H. Bowers.
 Isaac H. Cooper.
 William Potter.
 John Smith.

JOHN G. LOCKE, Clerk.

1842.**MAYOR:****NATHANIEL WRIGHT.****ALDERMEN:**

Nathaniel Thurston.
 Jefferson Bancroft, '39, '40, '41.
 Cyril French, '36, *'41.

William Livingston, '41.
 Ithamar A. Beard.
 John W. Graves.

THOMAS ORDWAY, City Clerk.

COMMON COUNCIL:**WARD 1.**

Jeremiah P. Jewett.
 John Hadley.
 James Townsend.
 Edward J. Payne.

WARD 2

John Nesmith, '39, '40.
 Erasmus D. Leavit, '41.
 Joseph W. Mansur, President.
 James Hopkins.

WARD 3.

Nathaniel Critchett, '41.
 Ira Spalding.
 John Mead.
 Asa W. Willoughby.

WARD 4.

John Morrison, '41.
 William Carlton.
 Oliver March.
 Josiah B. French, '36.

WARD 5.

James Patterson.
 Isaac Appleton.
 Josiah Seavey.
 Roswell Douglass.

WARD 6.

James Russell, '36, '37.
 Jonathan Kendall.
 Varnum A. Shed.
 Isaac N. Fitts.

JOHN G. LOCKE, Clerk.

1843.**MAYOR:****NATHANIEL WRIGHT, † '42.****ALDERMEN:**

Harlin Pillsbury, '39, *'40, res'd June.
 Henry C. Johnson.
 Cyril French, '36 *'41, *'42.

S. Spalding, '36, res'd in June.
 Joseph Griffin.
 Charles L. Tilden, *'38, '39.

THOMAS ORDWAY, City Clerk.

COMMON COUNCIL:**WARD 1.**

Daniel Bixby.
 Edward J. Payne, '42.
 Hugh Commiskey.
 Walter Wright, '37, '38, '39.

WARD 2.

Henry J. Baxter, '36, '38, '39.
 John P. Simonds.
 Pliny Lawton.
 Ben Osgood.

WARD 3.

John Mead, '42.
 Willard Brown.
 Ira Spalding, '42.
 Benjamin J. Gerrish.

WARD 4.

Otis Allen.
 Alfred Gilman.
 Oliver March, '42, President.
 William Carlton, '42.

WARD 5.

James Patterson, '42.
 David Bradt.
 John L. Tripp.
 Benjamin F. Holden.

WARD 6.

John B. McAlvin.
 Cyrus Battles.
 Sewall G. Mack.
 Charles F. Mitchell.

JOHN G. LOCKE, Clerk.

1844.**MAYOR:****ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41.****ALDERMEN:**

Henry Smith.
 Selwin Bancroft,
 O. M. Whipple, *'36, *'38, *'39.

Edward F. Watson, '40, '41.
 Joseph Griffin, *'43.
 John Wright.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Forrest Eaton, '39, '40.
 Gilman N. Nichols.
 Hugh Cumiskey, '43.
 David Healey.

WARD 2.

John P. Simonds, '43.
 Ben Osgood, '43.
 Amos Merriam.
 John Clark, †'36, *'39, President.

WARD 3.

Charles B. Coburn.
 George Choate.
 Isaac Scripture.
 William C. Gray.

WARD 4.

Asa Wetherbee.
 Abner W. Buttrick, '40.
 Horatio G. F. Corliss.
 Charles H. Wilder, '37.

WARD 5.

John L. Tripp, '43.
 David Bradt, '43.
 John Wright.
 Nathaniel Wright, Jr.

WARD 6.

Sewall G. Mack, '43.
 James Russell, '36, '37, '42.
 Jonathan Kendall, 42.
 Gilman Gale.

JOHN G. LOCKE, Clerk.**1845.****MAYOR:****ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44.****ALDERMEN:**

Henry Smith, *'44.
 Selwin Bancroft, *'44.
 O. M. Whipple, *'36, *'38, *'39, *'44.

Edward F. Watson, '40, '41, '44.
 John C. Dalton.
 Daniel Knapp, '39.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Gilman N. Nichols, '39.
 Danforth P. Brigham.
 Jonathan Adams.
 Willard C. Welch.

WARD 2.

John P. Simonds, '43, '44.
 Daniel Balch.
 William Brown.
 Daniel S. Richardson, President.

WARD 3.

Isaac Scripture, '44.
 William C. Gray, '44.
 George Choate, '44.
 Hapgood Wright.

WARD 4.

Abner, W. Buttrick, '40 '44.
 Asa Wetherbee, '44.
 Charles H. Wilder, '37, '44.
 Josiah Sawtell.

WARD 5.

Nathaniel Wright, Jr., '44.
 Amos Hyde.
 Edward Sherman.
 James Fenno.

WARD 6.

Gilman Gale, '44.
 John B. McAlvin, '43.
 Samuel Fay, Jr.
 Lorenzo P. Wright.

JOHN G. LOCKE, Clerk.

1846.**MAYOR:****JEFFERSON BANCROFT, '39, '40, *'41, *'42.****ALDERMEN:**

Henry Smith, *'44, *'45.
 Selwin Bancroft, *'44, *'45.
 William C. Gray, '44, '45.
 Joseph Butterfield.

John C. Dalton, '45.
 D. Knapp, '39, *'45, resigned in July
 Isaac Corper, '41, elected in August.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Gilman N. Nichols, '39, '45.
 Danforth P. Brigham, '45.
 Willard C. Welch, '45.
 Thomas S. Hutchinson.

WARD 2.

Daniel Balch, '45.
 William Brown, 45
 Daniel S. Richardson, ‡ '45, President.
 Zadock Rogers.

WARD 3.

Hapgood Wright, '45.
 Isaac Farrington.
 Joel Powers.
 Franklin Mead.

WARD 4.

Josiah Sawtell, '45.
 Solon Stevens.
 David J. Moody.
 William Fletcher.

WARD 5.

Amos Hyde, '45.
 Horatio G. F. Corliss, '44.
 Jonathan Bowers, '36.
 Charles M. Short.

WARD 6.

Lorenzo P. Wright, '45.
 John L. Fitts, '39, '40.
 Lewis Packard.
 Columbus J. Hubbard.

JOHN G. LOCKE, Clerk.**1847.****MAYOR:****JEFFERSON BANCROFT, '39, '40, *'41, *'42, †'46.****ALDERMEN:**

George Bragdon.
 Joseph Butterfield, *'46.
 Linus Child.
 James Fenno, '45.

Elisha Huntington, ‡ '37, ‡ '38, † '39, † '40,
 † '41, † '44, † '45.
 Sewall G. Mack, '43, '44.
 Stephen Mansur, '36, '39, *'40.
 Josiah Sawtell, '45, '46.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

William Conihe.
 James C. Crombie.
 David S. Bachelder,
 Jesse Huse.

WARD 2.

Samuel W. Brown, '40, '41.
 Hannibal Powers.
 William Newman.
 Otis L. Allen.

WARD 3.

Joel Powers, '46.
 Franklin Mead, '46.
 Isaac Farrington, '46.
 Samuel G. Davis.

WARD 4.

Joel Adams, President.
 Horatio Fletcher.
 Solon Stevens, '46.
 Stephen A. Coburn.

WARD 5.

Ignatius Tyler.
 Edward C. Johnson.
 Elihu Gates.
 Charles M. Short, '46.

WARD 6.

Thomas Wentworth.
 Isaac N. Parker.
 John R. Southwick.
 Isaiah Morse.

JOHN G. LOCKE, Clerk.

1848.**MAYOR:****JEFFERSON BANCROFT, '39, '40, *'41, *'42, †'46, †'47.****ALDERMEN:**

David Dana, '36, '38.	Gilman N. Nichols, '39, '45, '46.
Erastus Douglass, '36, '38.	Daniel S. Richardson, †'45, †'46.
Jacob Graves, resigned in June.	Josiah Sawtell, '45, '46, *'47.
William Newman, '47.	O. M. Whipple, *'36, *'38, *'39, *'45.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

William Conihe, '47.
James C. Crombie, '47.
Jesse Huse, '47.
Gerry Wilson.

WARD 2.

Otis L. Allen, '47.
William H. Flagg.
John Nesmith, '39, '40, '42.
Hannibal Powers, '47.

WARD 3.

Alfred Gilman, '43.
Thomas Hopkinson, '38, '39, President.
Ransom Reed.
Nathaniel Critchett, '41, '42.

WARD 4.

John Avery.
Otis Allen, '43.
Abiel Rolfe.
Horace Howard, '36, '38.

WARD 5.

Ignatius Tyler, '47.
Elihu Gates, '47.
Edward C. Johnson, '47.
Charles M. Short, '46, '47.

WARD 6.

Thomas Wentworth, '47.
Isaac N. Parker, '47.
Jeremiah M. Currier.
Horace Parmenter.

JOHN G. LOCKE, Clerk.**1849.****MAYOR:****JOSIAH B. FRENCH, '36, '42.****ALDERMEN:**

James B. Francis.	Daniel Carter.
Cyril French, '36, *'41, *'42, *'43.	George Brownell, '36, '37, *'38.
James H. B. Ayer.	Artemas L. Brooks.
Daniel D. Crombie.	Joseph Bedlow, *'40.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Jesse Huse, '47, '48, resigned in February.
William A. Richardson, elected in March.
Gerry Wilson, '48.
John W. Smith.
Alfred S. Saunders.

WARD 2.

William H. Flagg, '48.
Ivers Taylor.
Isaac S. Morse, resigned.
Ambrose Lawrence.

WARD 3.

Alfred Gilman, '43, '48.
Elisha Davis.
James Dinsmoor.
Andrew C. Wheelock.

WARD 4.

Nathaniel B. Favor.
Caleb Crosby.
Ezekiel Wright.
Waldo A. Fisher.

WARD 5.

Maynard Bragg.
Joshua Decatur.
Abram T. Melvin.
W. W. Morse.

WARD 6.

William Lamson, Jr.
Jeremiah M. Currier, '48.
George S. Wright.
John Aiken, *'37, *'41, President.

GEORGE A. BUTTERFELD, Clerk.

1850.**MAYOR:****JOSIAH B. FRENCH, '36, '42, †'49.****ALDERMEN:**

James H. B. Ayer, *'49.
 Joseph Bedlow, *'40, *'49.
 Daniel D. Crombie, *'49.
 James B. Francis, *'49.

Philip Hardy.
 John Mixer, '36, '38.
 Josiah G. Peabody.
 James Townsend, '42.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

John W. Smith, '49.
 Daniel R. Kimball.
 James Watson.
 Jonathan Smothers.

WARD 2.

Ivers Taylor, '49, President.
 George Gardner.
 Samuel Lawrence, 2d.
 Samuel J. Varney.

WARD 3.

Jonathan Page.
 John Tripp.
 Fordyce Coburn.
 Joshua Merrill.

WARD 4.

Abner W. Buttrick, '40, '44, '45.
 Caleb Crosby, '49.
 Benjamin Goddard.
 Nathaniel B. Favor, '49.

WARD 5.

George P. Elliot.
 William Fiske, '37, '38, '41.
 George W. Worthen.
 Maynard Bragg, '49.

WARD 6.

Albert Mallard.
 Stephen P. Sargent.
 George S. Wright, '49.
 Wm. Lampson, Jr., '49, resigned in May.

GEO. A. BUTTERFIELD, Clerk, res'd May. WM. LAMSON, JR., elected May.**1851.****MAYOR:****JAMES H. B. AYER, *'49, *'50.****ALDERMEN:**

William Fiske, '37, '38, '41, '50.
 Ambrose Lawrence, '49.
 James Townsend, '42, *'50.
 Philip Hardy, *'50.

William North, '37.
 Abiel Rolfe, '48.
 Lucius A. Cutler.
 Joshua Converse, 40.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

James Watson, '50.
 Jonathan Smothers, '50.
 Charles B. Coburn, '44.
 Stephen Moar.

WARD 2.

Linus Child, *'47.
 George Gardner, '50, President.
 Samuel J. Varney, '50.
 Zachariah B. Caverly.

WARD 3.

Fordyce Coburn, '50.
 William Twichell.
 Darius C. Brown.
 Benjamin C. Sargeant.

WARD 4.

Benjamin Goddard, '50.
 Richard Dennis.
 Holland Streeter.
 Solomon D. Emerson.

WARD 5.

George P. Elliot, '50.
 Edward Fifield.
 John N. Ford.
 Theodore H. Sweetser.

WARD 6.

George W. Worthen, '50.
 George W. Jones, died in September.
 Stephen P. Sargent, '50.
 Albert Mallard, '50.

WILLIAM LAMSON, JR., Clerk,

1852.**MAYOR:****ELISHA HUNTINGTON**, †'37, †'38, †'39, †'40, †'41, †'44, †'45, *'47.**ALDERMEN:**

Joseph Bedlow, *'40, *'49, *'50.

Joseph M. Bullens.

Samuel Burbank, '40, '41.

Joseph B. V. Coburn.

Wm. Fiske, '37, '38, '41, '50, *'51.

William North, '37, *'51.

Alpha Stevens.

Samuel J. Varney, '50, '51.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Rufus Rogers.

John C. Smith.

Jeremiah Clark.

Paul Hill.

WARD 2.

Paul Perkins.

Milton Bonney.

William Hovey.

Zachariah B. Caverly, '51.

WARD 3.

Darius C. Brown, '51.

William Twichell, '51.

Benjamin C. Sargeant, '51, President.

Michael B. Caswell.

WARD 4.

Holland Streeter, '51.

Elbridge Livingston.

Abram French.

Willard Minot.

WARD 5.

Edward Fifield, '51.

Phineas Whiting, '41.

George W. Patterson.

Jonathan Kendall, '42, '44.

WARD 6.

Leonard W. Jaquith.

Seth Pooler.

Caleb G. Weaver.

William C. Parker.

WILLIAM LAMSON, JR., Clerk.**1853.****MAYOR:****SEWALL G. MACK**, '43, '44, *'47.**ALDERMEN:**

Elisha Huntington, †'37, †'38, †'39, †'40, †'41, †'44, †'45, *'47, †'52.

Samuel K. Hutchinson.

Stephen Mansur, '36, '39, *'40, *'47.

Joseph B. V. Coburn, *'52.

Ira Spalding, '42, '43.

Joseph M. Bullens, *'52.

Alpha Stevens, *'52.

Joseph White.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Rufus Rogers, '52.

John C. Smith, '52.

Marcus A. Thomas.

James Cook, '36.

WARD 2.

Paul Perkins, '52.

Milton Bonney, '52.

George G. Bumpus.

George W. Stanley.

WARD 3.

Michael B. Caswell, '52.

Calvin Philbrick.

Leonard Brown.

Henry H. Wilder.

WARD 4.

Abram French, '52.

Henry C. Howe.

Joseph S. Grush.

Samuel K. Pickering.

WARD 5.

George W. Patterson, '52.

William A. Richardson, '49, President.

Patrick Conlan.

Jonathan Bowers.

WARD 6.

Caleb G. Weaver, '52.

William C. Parker, '52.

George F. Woods.

C. F. Blanchard.

WILLIAM LAMSON, JR., Clerk.

1854.**MAYOR:****SEWALL G. MACK, '43, '44, *'47, †'53.****ALDERMEN:**Elisha Huntington, †'37, †'38, †'39, †'40,
†'41, †'44, †'45, *'47, †'52, *'53.

J. B. V. Coburn, *'52, *'53, res'd in Jan.

Samuel K. Hutchinson, *'53.

Ira Spalding, '42, '43, *'53.

Joseph White, *'53.

Horatio Fletcher, '47.

C. F. Blanchard, '53.

Charles Sperry.

WILLIAM LAMSON, JR. City Clerk.**COMMON COUNCIL:****WARD 1.**

John C. Smith, '52, '53.

Paul Hill, '52.

Marcus A. Thomas, '53.

Thomas Lennor.

WARD 2.

George W. Stanley, '53.

William H. Gage.

Amos A. Taylor.

William H. Bradley.

WARD 3.

Calvin Philbrick, '53.

Leonard Brown, '53, declined.

Darius C. Brown, '51, '52, elected.

Henry H. Wilder, '53.

Peter O. C. Frawley.

WARD 4.

Henry C. Howe, '53.

Joseph S. Grush, '53.

Samuel K. Pickering, '53.

Hubbard Wilson.

WARD 5.

Wm. A. Richardson, '49, †'53, President.

Jonathan Bowers, '53.

Patrick Conlan, '53.

John C. Woodward.

WARD 6.

George F. Woods, '53.

Charles S. Eastman.

Levi H. Straw.

William P. Webster.

LEONARD BROWN, Clerk.**1855.****MAYOR:****AMBROSE LAWRENCE, '49, '51.****ALDERMEN:**

Wm. Fiske, '37, '38, '41, '50, *'51, *'52.

Artemas L. Brooks, *'49.

Daniel Woodward.

Lorenzo G. Howe.

Andrew T. Nute.

Abner Frost.

William S. Johnson.

Shadrach R. Brackett.

WILLIAM LAMSON, JR, City Clerk.**COMMON COUNCIL:****WARD 1.**

Maynard Bragg, '49, '50.

Aaron B. Young.

Augustus B. Roby.

George L. Harris.

WARD 2.

William G. Morse.

George K. Paul.

Mark H. Cook.

Joseph A. Patten.

WARD 3.

Alfred Gilman, '43, '48, '49, President.

Daniel Hurd.

Theodore Warren.

Stephen K. Fielding.

WARD 4.

Joshua W. Daniels.

John Bennett.

Alanson Folsom.

Francis H. Nourse.

WARD 5.

John C. Woodward, '54.

Stephen Bartlett.

Jonathan Johnson.

Oliver P. Rand.

WARD 6.

Levi H. Straw, '54.

William T. Whitten.

Lucien P. Stacy.

James M. Moore.

LEONARD BROWN, Clerk.

1856.**MAYOR:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44, †'45, *'47,
†'52, *'53, *'54.

ALDERMEN:

Edward Tuck.
Samuel Burbank, '40, '41, *'52.
Charles B. Coburn, '44.
William P. Webster, '54.
Hapgood, Wright, '45, '46.

Charles H. Wilder, '37, '44, '45.
O. J. Conant, resigned in March.
James H. Rand.
Jonathan Johnson, elected in June.

WILLIAM LAMSON, JR., City Clerk.

COMMON COUNCIL:**WARD 1.**

Enos O. Kingsley.
Abiel Pevey.
David M. Collins.
Marshall E. Thompson.

WARD 2.

Isaac Hinckley.
Seth Gage.
Peter Flanders, Jr.
Leonard F. Jewell.

WARD 3.

David Rogers.
Benj. C. Sargeant, '51, †'52, President.
Henry H. Carroll.
Peter Powers.

WARD 4.

Francis H. Nourse, '55.
Alden B. Buttrick.
Holland Streeter, '51, '52.
James Sands.

WARD 5.

Frederick Holton.
Isaac Place.
Albert Wheeler.
Abiel Rolfe, '48, *'51.

WARD 6.

Eliphalet Hills.
Jonathan P. Folsom.
James K. Fellows, '37.
John K. Chase.

JAMES J. MAGUIRE, Clerk.

1857.**MAYOR:**

STEPHEN MANSUR, '36, '39, *'40, *'47, *'53.

ALDERMEN:

Andrew T. Nute, *'55.
John C. Woodward, '54, '55.
Jonathan Smothers, '50, '51.
Samuel W. Stickney.

John B. Tuttle.
Francis H. Nourse, '55, '56.
Jonathan Johnson, '55, *'56.
John Nesmith, '39, '40, '42, '48.

WILLIAM LAMSON, JR., City Clerk.

COMMON COUNCIL:**WARD 1.**

Abiel Pevey.
Stephen T. Stanley.
Charles A. Welch.
George F. Scribner.

WARD 2.

William G. Morse, '55.
William D. Vinall.
Temple Tebbetts.
James M. Howe.

WARD 3.

Benjamin C. Sargeant, '51, †'52, †'56.
David Rogers, '56.
Henry H. Carroll, '56.
Nathan Allen.

WARD 4.

Caleb Crosby, '49, '50.
John F. Howe.
John C. Jepson.
Alanson Nichols.

WARD 5.

Frederick Holton, '56, President.
William H. Wiggin.
William Goodale.
Charles Hubbard.

WARD 6.

Erastus Boyden.
Jonathan Kimball.
Robert J. Garrett.
William Nichols.

HENRY A. LORD, Clerk.

1858.**MAYOR:**

ELISHA HUNTINGTON, † '37, † '38, † '39, † '40, † '41, † '44, † '45, * '47, † '52, * '53, * '54, † '56.

ALDERMEN:

Sewall G. Mack, '43, '44, * '47, † '53, † '54. Joseph M. Dodge, '37.
 Samuel W. Stickney, * '57. Harvey Silver.
 Abiel Pevey, '56, '57. Albert Wheeler, '56.
 Jeremiah P. Jewett, 42. Edwin A. Alger.

JOHN H. MCALVIN, City Clerk.

COMMON COUNCIL:**WARD 1.**

Charles Wilkins.
 John M. Maynard.
 John E. Webb.
 William Barnard.

WARD 2.

Edward Tuck, * '56.
 William P. Webster, '54, * '56.
 Andrew Blood.
 William F. Salmon.

WARD 3.

Benjamin C. Sargeant, '51, † '52, † '56, '57, President.
 Hanover Dickey.
 Joseph A. Brabrook.
 Benjamin S. Butterworth.

WARD 4.

Enoch P. Young.
 Zephaniah Goward.
 Jesse Blake.
 John F. Howe, '57.

WARD 5.

Willard Dudley.
 Samuel T. Manahan.
 Isaac Page.
 John Avery, 2d.

WARD 6.

William Nichols, '57.
 Alpha B. Farr, resigned in January.
 Leonard Brown, '53, '54, elected in Feb.
 Erastus Boyden, '57.
 James H. Rand, * '56, resigned in May.
 Eben'r Burgess, elected in June.

GEORGE GARDNER, Clerk.

1859.**MAYOR:**

JAMES COOK, '36, '53.

ALDERMEN:

Lorenzo G. Howe, * '55. John F. Howe, '57, '58.
 Samuel J. Varney, '50, 51, * '52. Joshua Converse, '40, * '51, res'd in April.
 Paul Hill, '52, '54. J. P. Folsom, '56, resigned in April.
 Ambrose Lawrence, '49, '51, † '55, re- Edward Tuck, * '56, '58, elected in May.
 signed in April. Samuel T. Manahan, '58, elected in May.
 Darius C. Brown, '51, '52. Jonathan Ladd, elected in May.

JOHN H. MCALVIN, City Clerk.

COMMON COUNCIL:**WARD 1.**

John E. Webb, '58.
 Charles Wilkins, '58.
 William Barnard, '58.
 William D. Blanchard.

WARD 2.

W. P. Webster, '54, * '56, '58, President.
 William F. Salmon, '58.
 James M. Howe, '57.
 David Nichols.

WARD 3.

George Hobson.
 Asahel D. Puffer.
 John Willoughby.
 Benjamin S. Butterworth, '58.

WARD 4.

Caleb Crosby, '49, '50, '57.
 Jesse Blake, '58.
 George W. Partridge.
 George W. Young.

WARD 5.

Horatio G. F. Corliss, '44, '46.
 Luther B. Morse.
 Josiah G. Peabody, * '50.
 William Goodale, '57.

WARD 6.

Charles A. Stott.
 Levi Sprague.
 Ebenezer Burgess, '58.
 Leonard Brown, '53, '54, '58.

GEORGE GARDNER, Clerk.

MUNICIPAL REGISTER

121

1860.

MAYOR:

BENJAMIN C. SARGEANT, '51, † '52, † '56, '57, † '58.

ALDERMEN:

Edward F. Watson, '40, '41, *'44, *'45.	Henry H. Wilder, '53, '54.
Lorenzo G. Howe, *'55, *'59.	Abner Frost, *'55.
James Watson, '50, '51.	Samuel T. Manahan, '58, *'59.
William G. Morse, '55, '57.	William S. Gardner.

JOHN H. McALVIN, City Clerk.

COMMON COUNCIL:

WARD 1.

Benjamin S. Ireson.
Enoch Quimby.
John P. Slocum.
Amos H. Foster.

WARD 2.

Henry P. Clough.
Alfred S. Saunders, '49.
Wm. F. Salmon, '58, '59, President.
Joseph L. Sargent.

WARD 3.

George Hobson, '59.
Josiah B. Fielding.
Henry P. Perkins.
Hocum Hosford.

WARD 4.

George W. Partridge, '59.
George W. Young, '59.
Morrill M. Bohonan.
Caleb Crosby, '49, '50, '57, '59.

WARD 5.

Josiah G. Peabody, *'50, '59.
Sullivan L. Ward.
George F. Morey.
William H. Lamson.

WARD 6.

William Nichols, '57, '58.
Samuel T. Lancaster.
Charles A. Stott, '59.
Foster Nowell.

GEORGE GARDNER, Clerk.

1861.

MAYOR:

BENJAMIN C. SARGEANT, '51, † '52, † '56, '57, † '58, † '60.

ALDERMEN:

Samuel T. Manahan, '58, *'59, *'60.	Aldis L. Waite.
Jonathan P. Folsom, '56, *'59.	David Whitney, declined acceptance.
James Watson, '50, '51, *'60.	Sager Ashworth, elected in May.
William G. Morse, '55, '57, *'60.	William S. Gardner, *'60.
Hocum Hosford, '60.	

JOHN H. McALVIN, City Clerk.

COMMON COUNCIL:

WARD 1.

Frank E. Jewett.
M. Gilbert Perkins.
Jacob Baron.
William D. Blanchard, '59.

WARD 2.

Alfred S. Saunders, '49, '60.
Joseph L. Sargent, '60.
Henry P. Clough, '60.
Henry S. Orange.

WARD 3.

William L. North, President.
George W. Norris.
Henry P. Perkins, '60.
James G. Morrison.

WARD 4.

Joseph Cater.
Joseph B. Keyes.
Morrill M. Bohonan, '60.
Abel M. Ayer.

WARD 5.

Sullivan L. Ward, '60.
Samuel Beck.
William H. Parker.
George F. Morey, '60.

WARD 6.

Samuel T. Lancaster, '60.
Foster, Nowell, '60.
Elon A. Sanborn.
George E. Dana.

GEORGE GARDNER, Clerk.

1862.**MAYOR:****HOCUM HOSFORD, '60, *'61.****ALDERMEN:**

Mertoun C. Bryant.
 Edwin A. Alger, *'58.
 James B. Francis, *'49, *'50.
 William A. Burke.

Isaac F. Scripture.
 Aldis L. Waite, *'61.
 Albert Wheeler, '56, *'58.
 Jona. P. Folsom, '56, *'59, *'61.

JOHN H. McALVIN, City Clerk.**COMMON COUNCIL:****WARD 1**

Amos D. Wright.
 Frank E. Jewett, '61.
 Horatio G. Burgess.
 Charles F. Hard.

WARD 2.

Benedict O. Carpenter.
 William T. McNeill.
 Lorenzo G. Howe, *'55, *'58, *'60.
 Henry S. Orange, '61.

WARD 3.

George W. Norris, '61.
 Edmund D. Fletcher.
 Everett W. French.
 John Quinn.

WARD 4.

Joseph B. Keyes, 61.
 George Runels.
 John Pettingell.
 Hubbard Willson, '54.

WARD 5.

Rollin C. Downs.
 Albert Mallard, '50, '51.
 Edward Fifield, '51, '52.
 Cleveland J. Cheney.

WARD 6.

George F. Richardson, President
 Albion J. Dudley.
 Elon A. Sanborn, '61.
 Frederick Frye.

GEORGE GARDNER, Clerk.**1863.****MAYOR:****HOCUM HOSFORD, '60, *'61, †'62.****ALDERMEN:**

James B. Francis, *'49, *'50, *'62.
 Edwin A. Alger, *'58, *'62.
 Abiel Pevey, '56, '57, *'58.
 William A. Burke, *'62.

Isaac F. Scripture, *'62.
 Otis Allen, '43, '48.
 Albert Wheeler, '56, *'58, *'62.
 William Nichols, '57, '58, '60.

JOHN H. McALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Charles F. Hard, '62.
 Amos D. Wright, '62.
 John Cosgrove.
 William A. Wright.

WARD 2.

George F. Sawtell.
 Henry S. Orange, '61, '62.
 Hugh McEvoy.
 Nathaniel Stearns.

WARD 3.

Everett W. French, '62.
 Fordyce Coburn, '50, '51.
 Edmund D. Fletcher, '62.
 John Quinn, 62.

WARD 4.

Atwell F. Wright.
 Josiah Gates.
 William Stafford.
 John McCann.

WARD 5.

James C. Ayer.
 Charles W. Saunders.
 Cyrus H. Latham.
 John E. Downs.

WARD 6.

George F. Richardson, †'62, President.
 Albion J. Dudley, '62.
 Benedict O. Carpenter, '62.
 Frederick Frye, '62.

GEORGE GARDNER, Clerk.

1864.**MAYOR:****HOCUM HOSFORD, '60, *'61, †'62, †'63.****ALDERMEN:**

William S. Southworth.	George W. Norris, '61, '62.
James B. Francis, *'49, *'50, *'62, *'63.	George Runels, '62.
Dana B. Gove.	Cyrus H. Latham, '63.
William T. McNeill, '62.	George F. Richardson, †'62, †'63.

JOHN H. MCALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Alden B. Watson.
 Lewis L. Perrin.
 Frederick S. Tukey.
 John Cosgrove, '63.

WARD 2.

George Ripley, President.
 Andrew F. Jewett.
 Artemas S. Young.
 Hoyt W. Hilton.

WARD 3.

Samuel N. Wood.
 Charles W. Dodge.
 Joseph S. Pollard.
 James G. Morrison, '61.

WARD 4.

Atwell F. Wright, '63.
 Daniel Churchill.
 William W. Sherman.
 Francis Jewett.

WARD 5.

John E. Downs, '63.
 Thomas G. Gerrish, resigned June 14.
 Charles Hubbard, '57.
 Cleveland J. Cheney, '62.

WARD 6.

Levi Sprague, '59.
 Tobias L. P. Lamson.
 Addison Putnam.
 Albion J. Dudley, '62, '63.

GEORGE GARDNER, Clerk.**1865.****MAYOR:****JOSIAH G. PEABODY, *'50, '59, '60.****ALDERMEN:**

Ew'd F. Watson, '40, '41, *'44, *'45, *'60.	Henry H. Wilder, '53, '54, *'60.
George W. Norris, '61, '62, *'64.	Josiah Gates, '63.
Dana B. Gove, *'64.	Cyrus H. Lathan, '63, *'64.
William T. McNeill, '62, *'64.	William Brown, '45, '46.

JOHN H. MCALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Alden B. Watson, '64.
 Lewis L. Perrin, '64.
 George N. Osgood.
 John R. Southwick, '47.

WARD 2.

George Ripley, †'64, President.
 Andrew F. Jewett, '64.
 Julian V. Keyes.
 Chester W. Rugg.

WARD 3.

Joseph S. Pollard, '64.
 Charles W. Dodge, '64.
 Edward C. Rice.
 Frederick T. North.

WARD 4.

Francis Jewett, '64.
 Benjamin Walker.
 Benjamin L. Googins.
 John Pearson.

WARD 5.

Charles Hubbard, '57, '64.
 James Kent.
 Simeon D. Osterhoudt.
 James Foster.

WARD 6.

Tobias L. P. Lamson, '64.
 Luke C. Dodge.
 Gustavus A. Gerry.
 James M. Moore, '55.

GEORGE GARDNER, Clerk.

1866.**MAYOR:****JOSIAH G. PEABODY, *'50, '59, '60, † '65.****ALDERMEN:**

Samuel A. Brown.
 Albert B. Plimpton.
 John R. Southwick, '47, '65.
 Joseph L. Sargent, '60, '61.

Charles W. Dodge, '64, '65.
 Josiah Gates, '63, *'65.
 Henry M. Hooke.
 Albion J. Dudley, '62, '63, '64.

JOHN H. McALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

William A. Hodge.
 William A. Wright, '63.
 Jacob Baron, '61.
 Rollin C. Downs, '62.

WARD 2.

Andrew F. Jewett, '64, '65.
 George H. Whitmore.
 Julian V. Keyes, '65.
 Chester W. Rugg, '65.

WARD 3.

Edward C. Rice, '65.
 Frederick T. North, '65.
 James N. Pinkham.
 Oliver W. Smith.

WARD 4.

Benjamin L. Googins, '65.
 Alfred Scott.
 Thomas F. Burgess.
 Benjamin Walker, '65.

WARD 5.

Robert H. Butcher.
 John T. Lee.
 George L. Huntoon.
 Jonathan Johnson, '55, *'56, *'57.

WARD 6.

Gustavus A. Gerry, '65, President.
 Luke C. Dodge, '65.
 Charles A. Kimball.
 Alfred H. Chase.

GEORGE GARDNER, Clerk.**1867.****MAYOR:****GEORGE F. RICHARDSON, † '62, † '63, *'64.****ALDERMEN:**

Charles B. Coburn, '44, '51, *'56.
 Hocum Hosford, '60, *'61, † '62, † '63, † '64,
 John R. Southwick, '47, '65, *'66.
 Joseph L. Sargent, '60, '61, *'66.
 Edward C. Rice, '65, '66.

Abner W. Buttrick, '40, '44, '45, '50;
 died June 29, '67.
 Wm. E. Livingston, elected Sept. 9, '67.
 William H. Parker, '61.
 Albion J. Dudley, '62, '63, '64, *'66.

JOHN H. McALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

John Shepard.
 Calvin Sawtell.
 Foster Wilson.
 M. Gilbert Perkins, '61.

WARD 2.

Gustavus A. Gerry, '65, † '66, President.
 Ruel J. Walker.
 William Dobbins.
 Silas Tyler, Jr.

WARD 3.

Jona. P. Folsom, '56, *'59, *'61, *'62.
 Frederick T. North, '65, '66.
 Samuel D. Prescott.
 Nathan M. Wright.

WARD 4.

John B. Hunt.
 John Q. A. Hubbard.
 Alfred Scott, '66.
 Thomas F. Burgess, '66.

WARD 5.

George L. Huntoon, '66.
 George S. Cheney.
 James Foster, '65.
 John T. Lee, '66.

WARD 6.

Alfred H. Chase, '66.
 James Lawton.
 John N. Pierce, Jr.
 Foster Nowell, '60, '61, res'd May 14, '67.
 William Kittredge, elected Sept. 9, '67.

GEORGE GARDNER, Clerk.

1868.**MAYOR:****GEORGE F. RICHARDSON**, ‡ '62, ‡ '63, *'64, † '67.**ALDERMEN:**

Charles B. Coburn, '44, '51, *'56, *'67. Edward C. Rice, '65, '66, *'67.
 Francis Jewett, '64, '65. William E. Livingston, *'67.
 John M. Pevey, resigned in July. Frederic Frye, '62, '63.
 Charles L. Hildreth, elected in September. Albion J. Dudley, '62, '63, '64, *'66, *'67.
 Silas Tyler, Jr., '67.

JOHN H. McALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Calvin Sawtell, '67.
 John Shepard, '67.
 John F. Merrill.
 Frederic T. Greenhalge.

WARD 2.

Francis D. Munn.
 Joseph A. Patten, '55.
 Ruel J. Walker, '67.
 Henry S. Orange, '61, '62, '63.

WARD 3.

George W. Badger.
 Samuel D. Prescott, '67.
 William Walker.
 Albert A. Haggett.

WARD 4.

William H. Anderson.
 John Q. A. Hubbard, '67.
 Charles T. Crane.
 John B. Hunt, '67.

WARD 5.

Edwin Lamson.
 George S. Cheney, '67.
 William Kelley.
 Ethan N. Spencer.

WARD 6.

John N. Pierce, Jr., '67.
 James Lawton, '67.
 Francis Brown.
 Alfred H. Chase, '66, '67, President.

GEORGE GARDNER, Clerk.**1869.****MAYOR:****JONATHAN P. FOLSOM**, '56, *'59, *'61, *'62, '67.**ALDERMEN:**

Francis Jewett, '64, '65, *'68. Hapgood Wright, '45, '46, *'56.
 Henry H. Wilder, '53, '54, *'60, '65. John Q. A. Hubbard, '67, '68.
 Charles L. Hildreth, *'68. George S. Cheney, '67, '68.
 Cyrus H. Latham, '63, *'64, *'65. Charles A. Stott, '59, '60.

JOHN H. McALVIN, City Clerk. Resigned March 15, 1869.**SAMUEL A. McPHETRES**, City Clerk. Elected March 15, 1869.**COMMON COUNCIL:****WARD 1.**

Frederic T. Greenhalge, '68.
 John H. Durgin, Jr.
 Patrick Keyes.
 Benjamin Patch.

WARD 2.

Joseph A. Patten, '55, '68.
 Phineas Jones.
 Francis D. Munn, '68.
 Amos Sanborn.

WARD 3.

George W. Badger, '68.
 Albert A. Haggett, '68.
 William Walker, '68.
 George E. Pinkham.

WARD 4.

William H. Anderson, '68, President.
 Simeon G. Lyford.
 Henry P. Carter.
 Epaphras A. Hill.

WARD 5.

William Kelley, '68.
 Willard A. Brown.
 William O. Fiske.
 Edwin Lamson, '68.

WARD 6.

Francis Brown, '68.
 Alpha B. Farr, '58.
 Lucian P. Stacy, '55.
 William Kittredge, '67.

GEORGE GARDNER, Clerk.

1870.**MAYOR:****JONATHAN P. FOLSOM, '56, *'59, *'61, *'62, '67, †'69.****ALDERMEN:**

Edward F. Sherman.

Frank F. Battles.

Charles L. Hildreth, *'68, *'69.

Amos B. French.

Hapgood Wright, '45, '46, *'56, *'69.

John Q. A. Hubbard, '67, '68, *'69.

Addison Putnam, '64.

Charles A. Stott, '59, '60, *'69.

SAMUEL A. MCPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

John H. Durgin, Jr., '69.

Benjamin Patch, '69.

Patrick Keyes, '69.

Samuel G. Ladd.

WARD 2.

Phineas Jones, '69.

John L. Moulton.

Patrick Cummiskey.

David G. Skillings.

WARD 3.

Albert A. Haggett, '68, '69, President.

Henry P. Perkins, '60, '61.

Hocum Hosford, '60, *'61, †'62, †'63,
†'64, *'67, declined.

Matthew Donovan.

John L. Meadowcroft, elected Jan. 24.

WARD 4.

Epaphras A. Hill, '69.

Henry P. Carter, '69.

Simeon G. Lyford, '69.

Michael Corbett.

WARD 5.

William O. Fiske, '69.

Willard A. Brown, '69.

James D. Hartwell.

Jeremiah Crowley.

WARD 6.

Alpha B. Farr, '58, '69.

William Kittredge, '67, '69.

Lucian P. Stacy, '55, '69.

John Stott.

GEORGE GARDNER, Clerk.**1871.****MAYOR:****EDWARD F. SHERMAN, *'70.****ALDERMEN:**

Frank F. Battles, *'70.

William F. Salmon, '58, '59, †'60.

John W. Smith, '49, '50.

Amos B. French, *'70.

Albert A. Haggett, '68, '69, †'70.

Henry C. Howe, '53, '54.

Frederick Ayer.

Addison Putnam, '64, *'70.

SAMUEL A. MCPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

John H. Durgin, Jr., '69, '70.

Samuel G. Ladd, '70.

Francis N. J. Haviland.

Joel Knapp.

WARD 2.

William Dobbins, '67.

John L. Moulton, '70.

Patrick Cummiskey, '70.

Amos A. Blanchard.

WARD 3.

Henry P. Perkins, '60, '61, '70, President.

John L. Meadowcroft, '70.

Horace Ela.

Julius C. Jockow.

WARD 4.

Benjamin Walker, '65, '66.

Michael Corbett, '70.

Francis H. Chandler.

Charles T. Goddard.

WARD 5.

Jeremiah Crowley, '70.

Crawford Burnham.

Henry C. Church.

Patrick Lynch.

WARD 6.

Leonard Brown, '53, '54, '58, '59.

John Stott, '70.

Abel T. Atherton.

Nathaniel C. Sanborn.

GEORGE GARDNER, Clerk.

1872.**MAYOR:****JOSIAH G. PEABODY, ***'50, '59, '60, †'65, †'66.**ALDERMEN:**

Henry C. Howe, '53, '54, *'71.

Alexander G. Cumnock.

Benjamin Patch, '69, '70.

Gustavus A. Gerry, '65, †'66, †'67.

Frederick T. North, '65, '66, '67.

Benjamin Walker, '65, '66, '71.

William Kelley, '68, '69.

Alpha B. Farr, '58, '69, '70.

SAMUEL A. MCPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

John E. Webb, '58, '59.

Alonzo F. Caswell.

Southwell Farrington.

True P. Jordan.

WARD 2.

Leonard Brown, '53, '54, '58, '59, '71.

Amos A. Blanchard, '71.

Joseph S. Brown.

Earl A. Thissell.

WARD 3.

Henry P. Perkins, '60, '61, '70, †'71, Pres.

Horace Ela, '71.

Julius C. Jockow, '71.

Charles F. Tilton.

WARD 4.

Nathaniel P. Favor.

Nathan W. Frye.

Henry A. Lord.

Alonzo L. Russell.

WARD 5.

Crawford Burnham, '71.

Charles F. Belden.

Luther J. Eames.

William Shepard.

WARD 6.

Abel T. Atherton, '71.

Nathaniel C. Sanborn, '71.

Samuel M. Chase.

Julian Talbot.

GEORGE GARDNER, Clerk.**1873.****MAYOR:****FRANCIS JEWETT, '64, '65, *'68, *'69.****ALDERMEN:**

Jonathan P. Folsom, '56, *'59, *'61, *'62, '67, †'69, †'70.

George Runels, '62, *'64.

Edward Tuck, *'56, '58, *'59, declined.

Isaac Farrington, '46, '47, declined.

William Dobbins, '67, '71, elected Jan. 14.

Charles A. F. Swan, elected January 14.

Jacob H. Sawyer.

Jeremiah Crowley, '70, '71.

Alpha B. Farr, '58, '69, '70, *'72.

George Stevens.

SAMUEL A. MCPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

John E. Webb, '58, '59, '72.

Alonzo F. Caswell, '72.

Frank Brady.

Stephen J. Smiley.

WARD 2.

Joseph S. Brown, '72.

Earl A. Thissell, '72.

Daniel Stickney.

Edward P. Woods.

WARD 3.

Albert A. Haggett, '68, '69, †'70, *'71, Pres.

Charles F. Tilton, '72, resigned March 1.

William Bass.

James Owens.

James A. Loughlin, elected April 8.

WARD 4.

Atwell F. Wright, '63, '64.

Nathaniel P. Favor, '72.

Nathan W. Frye, '72.

Henry A. Lord, '72.

WARD 5.

Robert H. Butcher, '66.

Charles F. Belden, '72.

Jared P. Maxfield.

George Smith.

WARD 6.

Nathaniel C. Sanborn, '71, '72.

Samuel M. Chase, '72.

George W. S. Hurd.

Artemas S. Tyler.

GEORGE GARDNER, Clerk.

1874.**MAYOR:****FRANCIS JEWETT**, '64, '65, *'68, *'69, †'73.**ALDERMEN:**

Jeremiah Crowley, '70, '71, *'73.
 Benjamin Walker, '65, '66, '71, *'72.
 Alonzo F. Caswell, '72, '73.
 Joseph S. Brown, '72, '73.

Jonathan Kendall, '42, '44, '52.
 George L. Huntoon, '66, '67.
 Nathaniel C. Sanborn, '71, '72, '73.
 George Stevens, *'73.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

Charles A. Welch, '57.
 Frank Brady, '73.
 Stephen J. Smiley, '73.
 Charles H. Harvey.

WARD 2.

Daniel Stickney, '73.
 Edward P. Woods, '73.
 Charles J. Eastman.
 Edward E. Reed.

WARD 3.

Julius C. Jockow, '71, '72.
 James Owens, '73.
 James A. Loughlin, '73.
 George W. Tilton.

WARD 4.

Charles T. Goddard, '71.
 Nathan W. Frye, '72, '73, President.
 Jacob H. Sawyer, *'73.
 Julian A. Richardson.

WARD 5.

Jared P. Maxfield, '73.
 John B. Lyford,
 Samuel P. Marin.
 John Scott.

WARD 6.

George W. S. Hurd, '73.
 Joel A. Abbott.
 Thomas Carolin.
 Jason Fuller.

GEORGE GARDNER, Clerk, died May 29.**DAVID CHASE**, Clerk, elected June 4.**1875.****MAYOR:****FRANCIS JEWETT**, '64, '65, *'68, *'69, †'73, †'74.**ALDERMEN:**

Benjamin Walker, '65, '66, '71, *'72, *'74.
 Jacob Rogers.
 John A. Goodwin.
 Joseph S. Brown, '72, '73, *'74.

Hapgood Wright, '45, '46, *'56, *'69.
 James Owens, '73, '74.
 Alden B. Richardson.
 Samuel A. Chase.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

Charles A. Welch, '57, '74.
 Charles H. Harvey, '74.
 John F. Howard.
 John W. Welch.

WARD 2.

Earl A. Thissell, '72, '73.
 Edward E. Reed, '74.
 William A. Read.
 Leavitt R. J. Varnum.

WARD 3.

Albert A. Haggett, '68, '69, †'70, *'71.
 George W. Tilton, '74. [†'73, Pres.
 Charles Cowley.
 Thomas R. Garity.

WARD 4.

Josiah Butler.
 Francis Carll.
 Edward P. Dennis.
 Edward Stockman.

WARD 5.

James D. Hartwell, '70.
 John B. Lyford, '74.
 Orford R. Blood.
 Charles W. Sleeper.

WARD 6.

Joel A. Abbott, '74.
 Thomas Carolin, '74.
 Jason Fuller, '74.
 Albert D. Wright.

DAVID CHASE, Clerk.

1876.**MAYOR:****CHARLES A. STOTT, '59, '60, * '69, * '70.****ALDERMEN:**

Jacob Rogers, * '75. Henry A. Hildreth.
 John A. Goodwin, * '75. [† '73, † '75. George E. Stanley.
 Albert A. Haggett, '68, '69, † '70, * '71, Francis Carl, '75.
 Charles F. Belden, '72, '73. William H. Wiggin, '57.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

John W. Welch, '75.
 Lewis Stiles.
 Daniel W. Manning.
 David M. Collins, '56, declined.
 John F. Howard, '75, elected January 11.

WARD 2.

Leavitt R. J. Varnum, '75.
 Charles E. Hallowell.
 Charles Callahan.
 William A. Read, '75.

WARD 3.

Charles Cowley, '75.
 Charles H. Kimball.
 Charles Runels.
 James Howard, died after election.
 William H. Grady, elected January 11.

WARD 4.

Edward Stockman, '75, resigned May 23.
 Gardner W. King.
 Stephen H. Jones.
 Charles D. Starbird.
 James W. Bennett, elected June 22.

WARD 5.

Orford R. Blood '75.
 John F. Kimball, President from May 23.
 Charles H. Hanson.
 M. Gilbert Perkins, '61, '67.

WARD 6.

Edwin Sanborn.
 Benjamin C. Dean, Pres., resig'd May 23.
 Charles H. Walker.
 John J. Pickman.
 Willis Farrington, elected June 22.

DAVID CHASE, Clerk.**1877.****MAYOR:****CHARLES A. STOTT, '59, '60, * '69, * '70, † '76.****ALDERMEN:**

Jeremiah Crowley, '70, '71, * '73, * '74. Orford R. Blood, '75, '76, seat vacated.
 Horace R. Barker. Stephen B. Puffer, declined el. January 2.
 George E. Stanley, * '76. Robert Park.
 Charles H. Kimball '76. George E. Pinkham, '69.
 George P. Walker.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

Daniel W. Manning, '76.
 Lewis Stiles, '76.
 John Courtney.
 Frank Brady, '73, '74, resig'd March 27.
 Jared P. Maxfield, '73, '74, elected May 8.

WARD 2.

Charles E. Hallowell, '76.
 Francis D. Munn, '68, '69.
 Charles H. Robbins.
 Oliver M. Harding.

WARD 3.

William H. Grady, '76.
 Patrick Lynch.
 Simon Kelly.
 George E. Davis.

WARD 4.

Gardner W. King, '76.
 James W. Bennett, '76.
 Irving K. Goodale.
 Orlnado Blodgett.

WARD 5.

John F. Kimball, † '76.
 Charles H. Hanson '76.
 Peter S. Coburn.
 Robert Goulding.

WARD 6.

Edwin Sanborn, '76.
 John J. Pickman, '76.
 Charles H. Walker, '76.
 Augustus E. Spaulding, dec. January 10
 George S. Cushing, elected February 6.

DAVID CHASE, Clerk.

MUNICIPAL REGISTER

1878.**MAYOR:****JOHN A. G. RICHARDSON.****ALDERMEN:**

Stephen B. Puffer, *'77.
 Robert Park, *'77.
 Horace R. Barker, *'77.
 George F. Scribner, '57.

George E. Scripture.
 Joseph S. Pollard, '64, '65, [*'77.
 Jeremiah Crowley, '70, '71, *'73, *'74,
 Nathaniel C. Sanborn, '71, '72, '73, *'74.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

John Courtney, '77.
 John J. Mealey.
 Joseph M. Ambrose.
 Charles H. Harvey, '74, '75.

WARD 2.

Oramel A. Brigham.
 Edward M. Tucke.
 William W. Clark.
 Albert W. Monty.

WARD 3.

Simon Kelly, '77.
 Edward Cawley.
 Henry P. Morris.
 Samuel D. Butterworth.

WARD 4.

Irving K. Goodale, '77.
 Orlando Blodgett, '77.
 Robert G. Bartlett.
 Stephen H. Jones, '76.

WARD 5.

Robert Goulding, '77.
 Peter S. Coburn, '77.
 John F. Kimball, †'76, †'77, President.
 Enos O. Kingsley, '56.

WARD 6.

George S. Cushing, '77.
 Eli W. Hoyt.
 Luke B. Taylor.
 Miles F. Brennan, to January 22.
 Thomas Nesmith, from January 22.

DAVID CHASE, Clerk.**1879.****MAYOR:****JOHN A. G. RICHARDSON, †'78.****ALDERMEN:**

Horace R. Barker, *'77, *'78.
 Charles A. R. Dimon.
 Joseph S. Pollard, '64, '65, *'78.
 Charles S. Lilley.

George E. Scripture, *'78.
 George F. Scribner, '57, *'78.
 Charles F. Howe.
 Robert Goulding, '77, '78.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

Joseph M. Ambrose, '78.
 John O'Donnell.
 James Kelly.
 Richard J. Noonan.

WARD 2.

Albert W. Monty, '78.
 Charles H. Richardson.
 William K. Chase, resigned November 25.
 Edwin A. Robinson.
 Edward M. Tucke, '78, elected Dec. 9.

WARD 3.

Edward Cawley, '78.
 Henry P. Morris, '78.
 William T. Benson.
 Patrick A. Rogers.

WARD 4.

Robert G. Bartlett, '78.
 Fred Woodies.
 Charles F. Varnum.
 Charles E. Farrington.

WARD 5.

Albert W. Burnham.
 Ambrose L. Ready.
 Joseph M. Wilson.
 Edward B. Peirce, President.

WARD 6.

Eli W. Hoyt, '78.
 Luke B. Taylor, '78.
 Major A. Shaw.
 Miles F. Brennan, '78.

DAVID CHASE, Clerk.

1880.**MAYOR:****FREDERIC T. GREENHALGE, '68, '69.****ALDERMEN:**

James D. Hartwell, '70, '75.

Atwill F. Wright, '63, '64.

Charles H. Richardson.

Edwin Lamson, '68, '69.

Isaac F. Scripture, *'62, *'63.

Robert Wood.

Charles H. Coburn.

James C. Abbott.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

James Kelly, '79.

Richard J. Noonan, '79.

Thomas J. Flynn.

Lawrence Cummings.

WARD 2.

Edwin A. Robinson, '79.

Wilbur L. Bates.

Samuel W. Foster.

Earl A. Thissell, '72, '73, '75, President.

WARD 3.

Peter H. Donohoe.

William T. Benson, '79.

Patrick A. Rogers, '79.

Frank Wood.

WARD 4.

Fred Woodies, '79.

Charles F. Varnum, '79.

Charles E. Farrington, '79.

Charles D. Starbird, '76.

WARD 5.

Joseph M. Wilson, '79.

Ambrose L. Ready, '79.

Samuel Hosmer.

Edward B. Peirce, † '79.

WARD 6.

Benjamin F. Freeman.

J. Tyler Stevens.

Charles C. Hutchinson.

Henry C. Cooper.

DAVID CHASE, Clerk.**1881.****MAYOR:****FREDERIC T. GREENHALGE, '68, '69, † '80.****ALDERMEN:**

Charles H. Richardson, *'80.

Isaac F. Scripture, *'62, *'63, *'80.

Robert Wood, *'80.

Ambrose L. Ready, '79, '80.

Levi Sprague, '59, '64.

Julius A. Stiles.

Samuel D. Butterworth, '78.

Thomas R. Garity, '75.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

Thomas J. Flynn, '80.

Lawrence Cummings, '80.

Robert J. Thomas.

Jeremiah J. Hayes.

WARD 2.

Zachariah D. Hall.

James M. Howe, '57, '59.

Hubert M. Potter.

Moses Gibson.

WARD 3.

Frank Wood, '80.

Peter H. Donohoe, '80.

John E. Maguire.

D. Moody Prescott.

WARD 4.

Julius C. Johnson.

Stephen C. Davis.

Edward Garner.

William N. Osgood.

WARD 5.

Atkinson C. Varnum.

Samuel Hosmer, '80.

Samuel P. Marin, '74.

Albert W. Burnham, '79.

WARD 6.

Charles C. Hutchinson, '80.

Albert G. Thompson.

Thomas Nesmith, '78.

Lawrence J. Smith.

DAVID CHASE, Clerk.

MUNICIPAL REGISTER

1882.**MAYOR:****GEORGE RUNELS, '62, *'64.****ALDERMEN:**

Thomas R. Garity, '75, *'81, Chairman. D. Moody Prescott, '81.
 * Charles W. Sleeper. George S. Cushing, '77, '78.
 George B. Smith. John F. Phillips.
 William A. Wright, '63, '66. † John Welch.
 David Whitaker.

‡ SAMUEL A. MCPHETRES, City Clerk. § DAVID W. O'BRIEN, City Clerk.

* Resigned, May 23; special election to fill vacancy, June 20.

† Elected June 20, to fill vacancy.

‡ Died Sept. 23, 1882

§ Elected Oct. 4, 1882.

COMMON COUNCIL:**WARD 1.**

Robert J. Thomas, '81.
 Jeremiah J. Hayes, '81.
 Dennis J. Crowley.
 John A. Walsh.

WARD 2.

Zachariah D. Hall, '81.
 James M. Howe, '57, '59, '81.
 Moses Gibson, '81.
 James F. Puffer, Jr.

WARD 3.

Frank Wood, '80, '81.
 John E. Maguire, '81.
 John J. Mead.
 James Grady.

WARD 4.

Julius C. Johnson, '81.
 Stephen C. Davis, '81.
 Edward Garner.
 William N. Osgood, '81, President.

WARD 5.

Atkinson C. Varnum, '81.
 Albert W. Burnham, '79, '81.
 Artemas B. Woodworth.
 Horace B. Barnes.

WARD 6.

Albert G. Thompson, '81.
 Lawrence J. Smith, '81.
 Thaddeus S. Cobb.
 Miles J. Fletcher.

DAVID CHASE, Clerk.

1883.**MAYOR:****JOHN J. DONOVAN.****ALDERMEN:**

John F. Phillips, *'82, Chairman. D. Moody Prescott, '81, *'82.
 George B. Smith, *'82. George W. Fifield.
 Robert J. Thomas, '81, '82. John Welch, *'82.
 David Whitaker, *'82. Miles J. Fletcher, '82.

DAVID W. O'BRIEN, City Clerk.

COMMON COUNCIL:**WARD 1.**

Dennis J. Crowley, '82.
 John J. Hogan.
 James H. Cahill.
 Daniel Murphy.

WARD 2.

Samuel Lawrence, '50.
 Joseph S. Brown, '72, '73, *'74, *'75.
 Albert W. Monty, '78, '79.
 John F. Thissell.

WARD 3.

James Grady, '82.
 John J. Mead, '82.
 Patrick J. Smith.
 Frank J. Donohue.

WARD 4.

James G. Elliott.
 Solomon K. Dexter.
 Alonzo L. Russell, '72.
 Geo. A. Bennett.

WARD 5.

Edward B. Pierce, ‡ '79, '80.
 Artemas B. Woodworth, '82.
 John P. Mahoney.
 George L. Ashworth.

WARD 6.

Lawrence J. Smith, '81, '82.
 Thaddeus S. Cobb, '82.
 J. Frank Page.
 Michael F. Clark.

DAVID CHASE, Clerk.

1884.**MAYOR:****JOHN J. DONOVAN, † '83.****ALDERMEN:**

Robert J. Thomas, '81, '82, *'83, Chair'n. Jeremiah Crowley, '70, '71, *'73, *'74,
 Miles J. Fletcher, '82, *'83. *'77, *'78.
 George W. Fifield, '83. Peter H. Donohoe, '80, '81.
 Thaddeus S. Cobb, '82, '83. Freeman B. Shedd.
 Edward B. Quinn.

DAVID W. O'BRIEN, City Clerk.**COMMON COUNCIL:****WARD 1.**

John J. Hogan, '83, President.
 James H. Cahill, '83.
 Daniel Murphy, '83.
 James H. Morrison.

WARD 2.

Joseph S. Brown, '72, '73, *'74, *'75, '83.
 Albert W. Monty, '78, '79, '83.
 Earl A. Thissell, '72, '73, '75, † '80.
 John R. Pike.

WARD 3.

Patrick J. Smith, '83.
 Peter J. Brady.
 Thomas J. Sparks.
 John Nolan.

WARD 4.

James G. Elliott, '83.
 Solomon K. Dexter, '83.
 Alonzo L. Russell, '72, '83.
 George A. Bennett, '83.

WARD 5.

Edward B. Peirce, † '79, '80, † '83.
 George L. Ashworth,
 Joseph M. Wilson, '79, '80.
 James S. Hanson.

WARD 6.

J. Frank Page, '83.
 Michael F. Clark, '83.
 Alfred M. Chadwick.
 Marcellus H. Fletcher.

DAVID CHASE, Clerk.**1885.****MAYOR:****EDWARD J. NOYES.****ALDERMEN:**

John F. Phillips, *'82, *'83, Chairman. James D. Hartwell, '70, '75, *'80.
 John F. Howe, '57, '58, *'59. George F. Penniman.
 William D. Brown. Oliver E. Cushing.
 George E. Stanley, *'76, *'77. James Francis.

SAMUEL M. CHASE, City Clerk.**COMMON COUNCIL:****WARD 1.**

Patrick H. Plunkett.
 James H. Morrison, '84.
 Thomas J. Enright.
 Henry F. Keyes.

WARD 2.

George W. Brothers.
 Walter M. Sawyer.
 James R. Fulton.
 Francis D. Munn, Jr.

WARD 3.

Peter J. Brady, '84.
 Patrick J. Smith, '83, '84.
 John Nolan, '84.
 Thomas J. Sparks, '84.

WARD 4.

Arnold S. Welch.
 George A. Roper.
 William A. Lang.
 Frank W. Howe.

WARD 5.

Wilson W. Carey.
 James S. Hanson, '84.
 Henry L. Newhall.
 Elwyn W. Lovejoy.

WARD 6.

Alfred M. Chadwick, '84, President.
 George R. Richardson.
 Luke B. Taylor, '78, '79.
 William H. White.

DAVID CHASE, Clerk.

MUNICIPAL REGISTER

1886.**MAYOR:****JAMES C. ABBOTT.****ALDERMEN:**

Jeremiah Crowley, '70, '71, *'73, *'74, Daniel Wright.
 *'77, *'78, *'84, Chairman. Samuel D. Butterworth, *'78, *'81.
 John F. Phillips, *'82, *'83, *'85. George F. Penniman, *'85.
 Stephen B. Puffer, *'77, *'78. James Francis, *'85.
 George E. Stanley, *'76, *'77, *'85.

SAMUEL M. CHASE, City Clerk.**COMMON COUNCIL:****WARD 1.**

Peter B. Sherlock.
 Patrick H. Plunkett, '85.
 Thomas J. Enright, '85.
 Timothy H. Brennan.

WARD 2.

Walter M. Sawyer, '85, President.
 Charles H. Richardson, '79.
 James R. Fulton, '85.
 Francis D. Munn, Jr., '85.

WARD 3.

Daniel Cleary.
 Patrick J. Mahan.
 Edward D. McVey.
 Thomas J. Sparks, '84, '85.

WARD 4.

Arnold S. Welch, '85.
 George A. Roper, '85.
 Frank W. Howe, '85.
 William A. Lang, '85.

WARD 5.

Henry L. Newhall, '85.
 Elwyn W. Lovejoy, '85.
 Wilson W. Carey, '85.
 Roswell M. Boutwell, '85.

WARD 6.

Lawrence J. Smith, '81, '82, '83.
 John E. Drury.
 Charles H. Hobson.
 Marcellus H. Fletcher, '84.

DAVID CHASE, Clerk.**1887.****MAYOR:****JAMES C. ABBOTT**, † '86.**ALDERMEN:**

Stephen B. Puffer, *'77, *'78, *'86, Chair'n. Peter H. Donohoe, '80, 81, *'84.
 Nathan D. Pratt. Miles J. Fletcher, '82, *'83, *'84.
 Francis C. Plunkett. Frederick Frye, '62, '63, *'68.
 August Fels. Marcellus H. Fletcher, '84, '86.

DAVID W. O'BRIEN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Michael J. Garvey.
 Dennis A. Sullivan.
 Daniel Murphy, '83, '84.
 Dennis J. Leary.

WARD 2.

Walter M. Sawyer, † '86.
 Charles H. Richardson, '79, '86.
 George C. Evans.
 Horace P. Beals.

WARD 3.

George B. McKenna.
 John Nolan, '84, '85.
 Daniel Cleary, '86.
 Patrick J. Smith, '83, '84, '85.

WARD 4.

Millard F. Wright.
 Edmund B. Conant.
 Jesse H. Shepard.
 Richard Dobbins.

WARD 5.

Roswell M. Boutwell, '86.
 George W. Brothers, '85.
 Clarence G. Coburn.
 James H. Carmichael, President.

WARD 6.

Richard B. Allen.
 John E. Drury, '86.
 Patrick Conlon.
 Edward Gallagher.

WILLIAM J. COUGHLIN, Clerk.

1888.**MAYOR:****CHARLES D. PALMER.****ALDERMEN:**

George A. Scribner.
 George E. Putnam.
 Charles Runels, '76.
 Charles E. Carter.
 Edward D. Holden.

Arthur Staples.
 Roswell M. Boutwell, '86, '87.
 Alfred M. Chadwick, '84, †'85, **Chairm'n.**

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Dennis A. Sullivan, '87.
 Dennis J. Leary, '87.
 Daniel Murphy, '83, '84, '87.
 Michael J. Garvey, '87.

WARD 2.

Frank J. Sherwood.
 Horace P. Beals, '87.
 Harry E. Shaw.
 Pierre A. Brousseau.

WARD 3.

John F. Rogers.
 Owen M. Donohoe.
 Thomas J. Sparks, '84, '85, '86.
 *John F. Roane.
 †Patrick H. Brosnahan.
 *Resigned Aug. 9. Special Election to
 fill vacancy Sept. 18.
 †Elected Sept. 18 to fill vacancy.

WARD 4.

*Millard F. Wright, '87.
 Edmund B. Conant, '87, President.
 Jesse H. Shepard, '87.
 Richard Dobbins, '87.
 †Alonzo G. Walsh.
 *Resigned April 24. Special Election to
 fill vacancy June 5.
 †Elected June 5 to fill vacancy.

WARD 5.

Charles C. Hartwell.
 Clarence G. Coburn, '87.
 George W. Brothers, '85.
 Joseph S. Lapierre.

WARD 6.

William E. Westall.
 Frank Brown.
 Richard B. Allen, '87.
 Abbott Lawrence.

DAVID CHASE, Clerk**1889.****MAYOR:****CHARLES D. PALMER, †'88.****ALDERMEN:**

George A. Scribner, *'88.
 Walter M. Sawyer, '85, †'86, '87.
 George E. Putnam, *'88.
 Edward D. Holden.

Roswell M. Boutwell, '86, '87, *'88, Ch'n.
 John H. Fuller.
 William F. Senter.
 John E. Drury, '86, '87.

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Patrick J. Savage.
 Joseph H. Callahan.
 Daniel H. Courtney.
 William J. Johnson.

WARD 2.

*Samuel C. George.
 Pierre A. Brousseau, '88.
 Arthur H. Cluer.
 Frank J. Sherwood, '88.
 †James Stuart Murphy.
 *Res'd June 9. †Ele. July 2, to fill vacancy.

WARD 3.

Owen M. Donohoe, '88.
 Stephen Garrity.
 Patrick H. Brosnahan, '88.
 Thomas J. Sparks, '84, '85, '86, '88.

WARD 4.

B. Frank Hale.
 Edwards Cheney.
 Alonzo G. Walsh, '88.
 Frank Gray.

WARD 5.

Orford R. Blood, '75, '76.
 Charles C. Hartwell, '88.
 Henry W. Ladd.
 Henry J. Draper.

WARD 6.

William E. Westall, '88, President.
 Abbott Lawrence, '88.
 Albert Crowell.
 Frank Brown, '88.

DAVID CHASE, Clerk.

1890.**MAYOR:****CHARLES D. PALMER, '88, † '89.****ALDERMEN:**

Albert D. Carter.

Watson A. Dickinson.

John E. Drury, '86, '87, *'89.

Edmund D. Fletcher.

John H. Fuller, *'89, Chairman.

Walter M. Sawyer, '85, ‡ '86, '87, *'89.

Samuel E. Snow.

Joseph M. Wilson, '79, '80, '84.

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Joseph H. Callahan, '89.

Daniel H. Courtney, '89.

William J. Johnson, '89.

Patrick J. Savage, '89.

WARD 2.

Newell Abare.

Arthur H. Cluer, '89.

Walter C. Coburn.

James Stuart Murphy, '89.

WARD 3.

Patrick H. Brosnahan, '88, '89.

Robert C. Gallagher.

Charles L. Marren.

Thomas J. Sparks, '84, '85, '86, '88, '89.

WARD 4.

Edwards Cheney, '89.

Frank Gray, '89.

B. Frank Hale, '89.

Alonzo G. Walsh, '88, '89, President.

WARD 5.

Orford R. Blood, '75, '76, '89.

Herbert M. Jacobs.

Henry W. Ladd, '89.

Louis P. Turcotte.

WARD 6.

Albert Crowell, '89.

Daniel D. Driscoll.

James Gookin.

Edward F. Spalding.

DAVID CHASE Clerk.**1891.****MAYOR:****GEORGE W. FIFIELD, *'83, *'84.****ALDERMEN:**

Richard B. Allen, '86, '87.

James W. Cassidy.

Jeremiah Crowlev, '70, '71, *'73, *'74, *'77,

*'78, *'84, *'86, Chairman.

Watson A. Dickinson, *'90.

Thomas J. Enright, '85, '86.

George H. Frye.

Stephen B. Puffer, *'77, *'78, *'86, *'87.

George F. Tilton.

MICHAEL J. DOWD, City Clerk.**COMMON COUNCIL:****WARD 1.**

Patrick H. Barry.

James F. Doherty.

John J. Sullivan.

Peter F. Garrity.

WARD 2.

Newell Abare, '90.

Adolphe Benard.

Walter C. Coburn, '90.

George H. Marston.

WARD 3.

Patrick J. Baxter.

John J. Gilbride.

Charles H. Marren, '90.

Thomas J. Sparks, '84, '85, '86, '88, '89, '90, President.

WARD 4.

Edwin L. Giles.

Fred Horne.

Wallace G. Parkin.

Eugene C. Wallace.

WARD 5.

Herbet M. Jacobs, '90.

George D. Kimball.

John A. Speirs.

Louis P. Turcotte, '90.

WARD 6.

James A. Cawley.

James J. Dolan.

Daniel D. Driscoll, '90.

James Gookin, '90.

DAVID CHASE, Clerk.

1892.**MAYOR:****GEORGE W. FIFIELD, *'83, *'84, † '91.****ALDERMEN:**

Samuel D. Butterworth, *'78, *'81, *'86. Stephen J. Johnson.
 James W. Cassidy, *'91. Freeman W. Puffer.
 William J. Coughlin. Frank E. Stowell.
 Albert A. Haggett, '68, '69, † '70, *'71, Charles F. Varnum, '79, '80.
 *'76, Chairman.

MICHAEL J. DOWD, City Clerk.**COMMON COUNCIL****WARD 1.**

John Brunette.
 James O'Neill,
 Joseph O'Rourke.
 John J. Sullivan, '91.

WARD 2.

Adolphe Benard, '91.
 George H. Marston, '91.
 Frank Scott.
 Hugh A. Thompson.

WARD 3.

Patrick J. Baxter, '91.
 John J. Gilbride, '91.
 Thomas J. Sparks, '84, '85, '86, '88, '89,
 '90, † '91, President.
 William H. Stafford.

WARD 4.

Edwin L. Giles, '91.
 Fred Horne, '91.
 Wallace G. Parkin, '91.
 Moses Wyman.

WARD 5.

Constant Henotte.
 Patrick H. Kehoe.
 Joseph A. McDonald.
 Charles W. Swan.

WARD 6.

William T. Benson, '79, '80.
 James J. Dolan, '91.
 Thomas F. Hoban.
 Michael F. McCarthy.

DAVID CHASE, Clerk.**1893.****MAYOR:****JOHN J. PICKMAN, '76, '77.****ALDERMEN:**

George R. Choate. Freeman W. Puffer, *'92.
 George C. Evans, '87. Stephen B. Puffer, *'77, *'78, *'86, *'87,
 Stephen J. Johnson, *'92. *'91.
 Elwyn W. Lovejoy, '85, '86. William E. Westall, '88, † '89, Chairman.
 Joseph A. McDonald, '92.

MICHAEL J. DOWD, City Clerk.**COMMON COUNCIL:****WARD 1.**

John Brunette, '92.
 Patrick J. O'Brien.
 James O'Neil, '92.
 Fred H. Rourke.

WARD 2.

Charles H. Boisvert.
 Frank Scott, '92.
 Hugh A. Thompson, '92.
 George H. Tryder.

WARD 3.

Frank Dunlap.
 John J. Grady.
 John Joseph O'Connor.
 William H. Stafford, '92.

WARD 4.

George E. Barclay.
 William J. Hills.
 Charles T. Killpartrick.
 Moses Wyman, '92.

WARD 5.

Cyrille Constantineau.
 Patrick J. Custy.
 Charles H. Noble.
 James O'Sullivan.

WARD 6.

William T. Benson, '79, '80, '92, Pres.
 James J. Dolan, '91, '92.
 Thomas F. Hoban, '92.
 Anthony Robinson.

FRANK J. SIMONDS, Clerk.

1894.**MAYOR:****JOHN J. PICKMAN, '76, '77, † '93.****ALDERMEN:**

Charles N. Bagley.
 Watson A. Dickinson, *'90, *'91.
 Frank Dunlap, '93.
 Coolidge R. Johnson.
 Stephen J. Johnson, *'92, *'93.

Elwyn W. Lovejoy, '85, '86, *'93, Chair-
 man.
 George E. Stanley, *'76, *'77, *'85, *'86.
 William E. Westall, '88, † '89, *'93.

MICHAEL J. DOWD, City Clerk.**COMMON COUNCIL:****WARD 1.**

Matthew M. Mansfield.
 Patrick J. O'Brien, '93.
 Fred H. Rourke, '93.
 John J. Ryan.

WARD 2.

J. Henry Collins.
 John G. Gordon.
 Fred W. Sanborn.
 George H. Tryder, '93.

WARD 3.

Joseph H. Gormley.
 John J. O'Connell.
 John Joseph O'Connor, '93.
 Thomas J. Sparks, '84, '85, '86, '88, '89,
 '90, † '91, † '92, President.

WARD 4.

George E. Barclay, '93.
 William L. Hills, '93.
 Charles T. Killpartrick, '93.
 Luther F. Kittredge.

WARD 5.

Patrick J. Gasty, '93.
 Frederick E. Labarge.
 Charles H. Noble, '93.
 John Oliver.

WARD 6.

William T. Benson, '79, '80, '92, † '93,
 Died May 21, 1894.
 William F. Curtin.
 Charles Riley.
 Anthony Robinson, '93.
 Thomas O'Day, Elected July 17, '94.

FRANK J. SIMONDS, Clerk.**1895.****MAYOR:****WILLIAM F. COURTNEY.****ALDERMEN:**

Frank B. Dow.
 Frederic J. Flemings.
 William L. Hills, '93, '94.
 Charles E. Howe.

George H. Tryder, '93, '94.
 Daniel H. Varnum, Chairman.
 John C. Wilson.
 Moses Wyman, '92, '93.

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Patrick H. Barry, '91.
 Thomas F. Garvey.
 Hugh Maguire, Jr.,
 Matthew M. Mansfield.

WARD 2.

Edwin S. Eastman.
 William Hounsell.
 Willis E. Morse.
 Fred W. Sanborn, '94.

WARD 3.

Patrick F. Delehanty.
 Joseph H. Gormley, '94.
 James F. Miskella.
 Timothy J. Reynolds.

WARD 4.

David Dickson.
 Edward T. Goward.
 Jonathan G. Hunton.
 Herbert E. Webster.

WARD 5.

Eugene E. Dennison.
 George W. Hartwell.
 John Oliver.
 Francis P. Rivet.

WARD 6.

William F. Curtin, '94, President.
 Thomas O'Day, '94.
 Charles Riley, '94.
 John E. Sullivan.

FRANK J. SIMONDS, Clerk.

1896.**MAYOR:****WILLIAM F. COURTNEY, † '95.****ALDERMEN:**Jeremiah Crowley, '70, '71, *'73, *'74,
*'77, *'78, *'84, *'86, Chairman.

Frank B. Dow, *'95.

Frederic J. Flemings, *'95.

Charles E. Howe, *'95.

John H. McAlvin.

James A. Pevey.

George H. Tryder, '93, '94, *'95.

Edward M. Tucke.

John C. Wilson, *'95.

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

William Hounsell, '95, ward 2.

Jonathan G. Hunton, '95, ward 4.

Homer B. Nay.

WARD 2.

William J. Dunn.

Hugh Maguire, Jr., '95, ward 1.

Dennis J. Pendergast.

WARD 3.

David Dickson, '95, ward 4.

Frank H. Hallett.

Herbert M. Jacobs, '90, '91, ward 5.

WARD 4.

James F. Miskella, '95, ward 3.

Stephen O'Hare.

Timothy J. Reynolds, '95, ward 3.

WARD 5.

John P. O'Hare.

John E. Sullivan, '95, ward 6.

Charles E. Thornton.

WARD 6.

William E. Badger.

Sidney Drewett.

Edwin S. Eastman.

WARD 7.

George W. Hartwell, '95, ward 5.

Francis P. Rivet, '95, ward 5.

Lorenzo E. Smith.

WARD 8.

Fred A. George.

William H. Penn.

Herbert E. Webster, '95, ward 4, **Pres't.****WARD 9.**

Charles A. Eveleth.

Henry K. White.

Carl G. A. F. W. E. Pihl.

FRANK N. OWEN, Clerk.**1897.****MAYOR:****WILLIAM F. COURTNEY, † '95, † '96.****ALDERMEN:**

Charles H. Cosgrove.

Lucius A. Derby.

Edwin S. Eastman, '95, '96.

Edward T. Goward, '95.

George L. Hooper.

Charles E. Howe, *'95, *'96, Chairman.

Abbott Lawrence, '88, '89.

Edward B. Pierce, †'79, '80, †'83, '84.

Fred A. Tuttle.

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Anadore B. Bosca.

Clarence W. Dana.

Samuel Scott.

WARD 2.

William J. Dunn, '96.

James Kennedy.

Dennis J. Pendergast, '96.

WARD 3.

William H. Brown.

James Smith.

Oliver D. Wilder.

WARD 4.

Francis M. Fagan.

James F. Miskella, '95, '96.

Stephen O'Hare, '96.

WARD 5.

George Farley.

Michael E. Sullivan.

Charles E. Thornton, '96.

WARD 6.

John H. Beaulieu.

Walter F. Leighton.

George H. Taylor.

WARD 7.

Clovis Belanger.

Lorenzo E. Smith, '96.

Lincoln R. Welch.

WARD 8.

Arthur W. Lang.

Charles F. Libby.

William H. Penn, '96, **President.****WARD 9.**

Butler Ames.

Louis B. Sykes.

Henry K. White, '96.

FRANK N. OWEN, Clerk.

1898.**MAYOR:****JAMES W. BENNETT, '76, '77.****ALDERMEN:**

Charles H. Cosgrove, *'97.

Lucius A. Derby, *'97.

Charles A. R. Dimon, *'79, Chairman.

Edward T. Goward, '95, *'97.

Guy Holbrook.

Oliver A. Libby.

Edward B. Peirce, †'79, '80, †'83, '84, *'97.

Francis P. Rivet, '95, '96.

Fred A. Tuttle, *'97.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL:**WARD 1.**

Anadore B. Bosca, '97.

Clarence W. Dana, '97.

Charles D. Paige.

WARD 2.

Thomas F. Garvey, '95.

James Kennedy, '97.

Frank McMahon.

WARD 3.

James Smith, '97.

Burton H. Wiggin.

Oliver D. Wilder, '97.

WARD 4.

Francis M. Fagan, '97.

Michael J. Markham.

John J. Roark.

WARD 5.

George A. Farley, '97.

William J. McCluskey.

Michael Sullivan, '97.

WARD 6.

John H. Beaulieu, '97.

Walter F. Leighton, '97.

George H. Taylor, '97, President.

WARD 7.

Alfred J. Howe.

Charles H. Merrill.

Eben B. Stafford.

WARD 8.

Arthur W. Lang, '97.

Charles F. Libby, '97.

Anthony D. Mitten.

WARD 9.

Walter E. Murkland.

Louis B. Sykes, '97.

William D. Whittet.

FRANK M. DOWLING, Clerk.

1899.**MAYOR:****JEREMIAH CROWLEY, '70, '71, *'73, *'74, *'77, *'78, *'84, *'86, *'91, *'96****ALDERMEN:**

Sam Chapin.

Lucius A. Derby, *'97, *'98.

Charles A. R. Dimon, *'79, *'98.

Oliver A. Libby, *'98.

Philip McNulty.

James F. Miskella, '95, '96, '97.

Edward B. Peirce, †'79, '80, †'83, '84, *'97, *'98.

George H. Taylor, '97, †'98.

Oliver D. Wilder, '97, '98.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL:**WARD 1.**

Herbert R. Baker.

Charles D. Paige, '98, President.

Francis E. Saunders.

WARD 2.

Patrick H. Barry, '91, '95.

Frank McMahon, '98.

John J. Mullaney.

WARD 3.

William H. Brown.

Chas. H. Flanders.

Burton H. Wiggin, '98.

WARD 4.

Timothy F. Donohoe.

Michael J. Markham, '98.

John J. Roark, '98.

WARD 5.

Frank S. Clark.

John F. Dillon.

John J. O'Brien.

WARD 6.

William E. Badger, '96.

George E. Burns.

James F. Walker.

WARD 7.

Philip Desmarais.

Lewis Lebrun.

Eben B. Stafford, '98.

WARD 8.

Fred E. Bean.

Ralph B. Lyman.

Anthony D. Mitten, '98.

WARD 9.

Henry Hatch.

Walter E. Murkland, '98.

William D. Whittet, '98.

FRANK M. DOWLING, Clerk.

1900.**MAYOR.**

JEREMIAH CROWLEY, '70, '71, *'73, *'74, *'77, *'78, *'84, *'86, *'91, *'96, †'99.

ALDERMEN.

William E. Badger, '96, '99.
 Cyrus Barton.
 John H. Beaulieu, '97, '98.
 William H. Brown, '99.
 James H. Carmichael, †'87.

Edward S. Howe.
 Charles D. Paige, '98, †'99.
 George H. Taylor, '97, †'98, *'99, **Chairman.**
 William D. Whittet, '98, '99.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.**WARD 1.**

Herbert R. Baker, '99.
 James G. Hill.
 Francis E. Saunders, '99.

WARD 2.

Patrick H. Barry, '91, '95, '99.
 Bernard F. Lee.
 John J. Mullaney, '99.

WARD 3.

Otto Jensen.
 Ephraim D. Livingston.
 George McElroy.

WARD 4.

James B. Casey.
 Timothy F. Donohoe, '99.
 Michael J. Markham, '98, '99.

George Emsley.

Daniel N. Pickering.

FRANK M. DOWLING, Clerk.

WARD 5.

T. Frank Clark.
 John F. Dillon, '99.
 Thomas J. McCaffrey.

WARD 6.

Pierre A. Brousseau, '88, '89.
 George E. Burns, '99.
 James F. Walker, '99, **President.**

WARD 7.

Alfred J. Howe, '98.
 Louis Lebrun, '99.
 Eben B. Stafford, '98, '99.

WARD 8.

Fred E. Bean, '99.
 Anthony D. Mitten, '98, '99.
 Charles E. Tilton.

WARD 9.

Henry Hatch, '99.

1901.**MAYOR.**

CHARLES A. R. DIMON, *'79, *'98, *'99.

ALDERMEN

William E. Badger, '96, '99, *1900.
 James H. Carmichael †'87, *1900.
 Patrick Conlon, '87.
 Philip Desmarais, '99.
 Richard J. McCluskey.

James F. Miskella, '95, '96, '97, *'99, **Chairman.**
 Joseph Mullin.
 Gardner W. Pearson.
 John J. Sullivan, '91, '92.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.*** WARD 1.**

Herbert R. Baker, '99, 1900.
 James G. Hill, 1900. Elected Pres. July 2, 1901.
 Mark D. Taylor.

WARD 2.

Peter Daley.
 Patrick J. O'Rourke.
 John H. Spillane. Died April 16.
 John J. Pinder. Elected June 4.

WARD 3.

Otto Jensen, 1900.
 Ephraim D. Livingston, 1900.
 George McElroy, 1900.

WARD 4.

James B. Casey, 1900.
 Timothy Donohoe, '99, 1900.
 Michael J. Markham, '98, '99, 1900.

Charles H. Clough.

Frank G. Lundberg.

FRANK M. DOWLING, Clerk.

WARD 5.

T. Frank Clark, 1900.
 Thomas J. McCaffrey, 1900.
 George B. Roche.

WARD 6.

Pierre A. Brousseau, '88, '89, 1900, **President.**
 Resigned July 2, 1901.
 John A. Henderson.
 Harry Swann.

WARD 7.

Louis Lebrun, '99, 1900.
 Joseph A. Legare.
 Albert S. Park.

WARD 8.

James P. Dugdale.
 Albert F. Grant.
 Charles E. Tilton, 1900.

WARD 9.

George Emsley, 1900.

1902.**MAYOR.**

CHARLES A. R. DIMON, *'79, *'98, *'99, † '01. (Died May 21, 1902.)
 WILLIAM E. BADGER, (Acting Mayor.)

ALDERMEN.

William E. Badger, '96, '99, *'00, *'01, Chairman. Lucius A. Derby, *'97, *'98, *'99.
 Cyrus Barton, *'00. Charles H. Molloy.
 William H. Brown, '99, *'00. James O'Sullivan, '93.
 George E. Burns, '99, '00. George F. Stiles.
 James H. Carmichael, † '87, *'00, *'01.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.**WARD 1.**

Cecil L. Adams.
 James G. Hill, '00, '01, President.
 Mark D. Taylor, '01.

WARD 2.

Frederick Cronan.
 Peter Daley, '01.
 John J. Pinder, '01.

WARD 3.

Asa B. Hilliard.
 Thomas G. Little.
 Charles H. Worcester.

WARD 4.

James B. Casey, '00, '01.
 Timothy Donohoe, '99, '00, '01.
 Patrick F. Welch.

WARD 5.

John F. Dillon, '99, '00.
 Hugh Finnerty.
 George B. Roche, '01.

WARD 6.

John A. Henderson, '01.
 Elie C. Laporte
 Harry Swan, '01.

WARD 7.

Edmond P. Fontaine.
 Joseph A. Legare, '01.
 Albert S. Park, '01.

WARD 8.

William Fairweather
 Albert F. Grant, '01.
 Hamlet S. Greenwood.

WARD 9.

William G. Brown.

Daniel N. Pickering, '00.
 FRANK M. DOWLING, Clerk.

John S. Palm.

1903.**MAYOR.**

CHARLES E. HOWE, *'95, *'96, *'97

ALDERMEN.

George E. Burns, '99, '00, *'02
 James B. Casey, '00, '01.
 Lucius A. Derby, *'97, *'98, *'99, *'02.
 James J. Gallagher.
 David Gerow.

James G. Hill, '00, '01, † '02.
 Richard J. McCluskey, *'01.
 James F. Miskella, '95, '96, '97, *'99, *'01, Chn.
 Charles H. Molloy, *'02.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.**WARD 1.**

Cecil L. Adams, '02, President.
 James W. Barry.
 James J. Hayes.

WARD 2.

Thomas J. Conners.
 Frederick Gronan, '02.
 John J. Pinder, '01, '02.

WARD 3.

Thomas H. Braden.
 Asa B. Hilliard, '02.
 Charles H. Worcester, '02.

WARD 4.

Dennis J. Cooney.
 Timothy Donohoe, '99, '00, '01, '02.
 Patrick F. Welch, '02.

WARD 5.

Hugh Finnerty, '02.
 Frank A. McLaughlin.
 George B. Roche, '01, '02.

WARD 6.

Frederick G. Baldwin.
 Samuel Fleming.
 C. Fred Hard.

WARD 7.

Edmond P. Fontaine, '02.
 William J. Hayes
 Andrew Livingston.

WARD 8.

William H. Dodge.
 William Fairweather, '02.
 Hamlet S. Greenwood, '02.

WARD 9.

William G. Brown, '02.

John W. Daly.

John S. Palm, '02.
 FRANK M. DOWLING, Clerk.

1904.**MAYOR.**

CHARLES E. HOWE, * '95, * '96, * '97, † '03.

ALDERMEN.

James H. Carmichael, ‡ '87, * '00, * '01, * '02.

William Fairweather, '02, '03.

James J. Gallagher, * '03.

David Gerow, * '03.

Albert F. Grant, '01, '02.

James G. Hill, '00, ‡ '01, ‡ '02, * '03.

James F. Miskella, '95, '96, '97, * '99, * '01, * '03
[Chairman.]

Albion C. Taylor.

William H. Wilson.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.**WARD 1.**

James W. Barry, '03.

James H. Fleming.

James J. Hayes, '03.

WARD 2.

Thomas J. Connors, '03.

Frederick Cronan, '02, '03.

Michael J. Quinn.

WARD 3.

Thomas H. Braden, '03, President.

Edmund J. Cheney.

Charles H. Worcester, '02, '03.

WARD 4.

Daniel Cosgrove.

John P. Mahohey.

Patrick F. Welch, '02, '03.

WARD 5.

John Donohue.

Andrew McAloon,

Frank A. McLaughlin. '03

WARD 6.

Frederick G. Baldwin, '03.

John H. Blake.

Samuel Fleming, '03.

WARD 7.

William J. Hayes, '03.

Charles H. May.

William G. McIntyre.

WARD 8.

William H. Dodge, '03.

Solomon S. Mayberry.

George W. Peterson.

WARD 9.

Burton H. Crosby

John S. Palm, '02, '03.

Charles W. Stott.

FRANK M. DOWLING, Clerk.

SEVENTY-NINTH ANNUAL REPORT
OF THE
School Committee
OF THE
CITY OF LOWELL, MASS.
AND THE
FORTY-FIRST ANNUAL REPORT
OF THE
Superintendent of Public Schools
1904



LOWELL, MASS.
BUTTERFIELD PRINTING COMPANY.
1905

CITY OF LOWELL

OFFICE OF THE SCHOOL COMMITTEE,

LOWELL, MASS., January 2, 1905.

At a meeting of the School Committee, held January 2, 1905, it was voted that the Committee on Reports and the Superintendent of Schools have leave to print their annual reports for the year 1904.

In accordance with this vote the reports are herewith submitted.

A. K. WHITCOMB, Secretary.

ORGANIZATION
OF THE
School Committee
1904

WILLIAM W. DUNCAN, President.

ARTHUR K. WHITCOMB, Secretary.

Ward 1—WILLIAM W. DUNCAN, 56 Hildreth Bldg.	Term expires 1905
“ 2—JOHN J. HANLON, 169 Broadway	“ “ 1905
“ 3—OTIS ALLEN, 226 Merrimack St.	“ “ 1904
“ 4—WILLIAM F. REGAN, 79 Kinsman St.	“ “ 1905
“ 5—DENNIS J. MURPHY, 33 Tyler St.	“ “ 1904
“ 6—JOSEPH N. MARSTON, Runels Bldg.	“ “ 1904
“ 7—ANDREW G. SWAPP, 307 Pawtucket St.	“ “ 1905
“ 8—CHARLES W. TAYLOR, 17 Kirk St.	“ “ 1904
“ 9—HUGH WALKER, 3 Wyman's Exchange	“ “ 1905

STANDING COMMITTEES

- ON TEACHERS AND SALARIES—Messrs. Swapp, Duncan, Murphy.
- ON BOOKS AND SUPPLIES—Messrs. Marston, Taylor, Allen, Regan, Walker.
- ON EVENING SCHOOLS—Messrs. Allen, Swapp, Marston, Taylor, Hanlon.
- ON HIGH SCHOOL—Messrs. Duncan, Swapp, Marston, Murphy, Regan.
- ON EVENING DRAWING SCHOOLS—Messrs. Taylor, Duncan, Hanlon.
- ON MUSIC—Messrs. Murphy, Allen, Walker.
- ON REPORTS AND PRINTING—Messrs. Hanlon, Regan, Allen.
- ON ACCOUNTS—Messrs. Taylor, Duncan, Walker.
- ON SCHOOL HOUSES AND HYGIENE—Messrs. Walker, Hanlon, Marston.
- ON RULES—Messrs. Regan, Murphy, Swapp.

ASSIGNMENT OF SCHOOLS

- MR. DUNCAN — High, Edson, Kirk street, Cottage street.
- MR. HANLON — Green, Worthen street, Cheever street, Morrill, Worthen street Kindergarten.
- MR. ALLEN — Lincoln, Howard street, Grand street, Plain street, Lincoln and Plain street Kindergartens.
- MR. REGAN — High, Butler, London street, Weed street, Agawam street, Carter street, Lyon street, Agawam street and Chapel street Kindergartens.
- MR. MURPHY — High, Charles street, Central street, Ames street, Fayette street, Charles street Kindergarten.
- MR. MARSTON — High, Varnum, West Sixth street, Tenth street, Lakeview Avenue, Billings street, Varnum Kindergarten.
- MR. SWAPP — High, Bartlett, Pawtucket, Training, Cross street, Cabot street, New Moody street, Lexington Avenue, Pawtucket, and Bartlett Kindergartens.
- MR. TAYLOR — Highland, Franklin, Dover street, Powell street, Pine street, Middlesex Village, Franklin, Dover and Pine street Kindergartens.
- MR. WALKER — Moody, Pond street, High street, Sycamore street, Moody Kindergarten.

ASSIGNMENT OF EVENING SCHOOLS

MR. ALLEN—High, Edson, Howard street.

MR. SWAPP—Bartlett, Green, Pawtucket, Cheever.

MR. MARSTON—Varnum, Aiken avenue, Colburn, Old Moody.

MR. TAYLOR—Mann, Worthen.

MR. HANLON—Butler, Franklin.

ARTHUR K. WHITCOMB, Superintendent of Public Schools.

Office in City Hall.

OFFICE HOURS—One hour after the forenoon session of schools, and from
2 to 3 o'clock on Saturday afternoon. Telephone 566-4.

School Supply Room.

Open 8 a. m. to 12.30 p. m., and 1 to 5 p. m.

Telephone 506-2.

TRUANT COMMISSIONERS

GEO. F. STURTEVANT, JAMES KELLY, WM. F. THORNTON,
CAMILLE ROUSSIN.

Office in City Hall, Third Floor.

OFFICE HOURS—Saturday, 2 to 3 o'clock p. m. Other days, 4 to 5 o'clock
p. m., except during the summer vacation, when the office will be open from 9
to 10 o'clock a. m.

ORGANIZATION
OF THE
School Committee
1905

WILLIAM W. DUNCAN, President.

ARTHUR K. WHITCOMB, Secretary.

Ward 1—WILLIAM W. DUNCAN, 21 Hildreth Bldg.	Term expires 1905
“ 2—JOHN J. HANLON, 169 Broadway	“ “ 1905
“ 3—ANDREW S. WOOD, 598 School St.	“ “ 1906
“ 4—WILLIAM F. REGAN, 79 Kinsman St.	“ “ 1905
“ 5—EUGENE C. QUEENAN, 54 Pond St.	“ “ 1906
“ 6—HARRY SWANN, 94 Beech St.	“ “ 1906
“ 7—ANDREW G. SWAPP, 307 Pawtucket St.	“ “ 1905
“ 8—CHARLES W. TAYLOR, M. D., 17 Kirk St.	“ “ 1906
“ 9—HUGH WALKER, D. D. S., 3 Wyman's Exchange	“ “ 1905

STANDING COMMITTEES

- ON TEACHERS AND SALARIES—Messrs. Swapp, Duncan, Regan.
 ON BOOKS AND SUPPLIES—Messrs. Hanlon, Taylor, Swann, Wood, Walker.
 ON EVENING SCHOOLS—Messrs. Wood, Swapp, Taylor, Swann, Hanlon.
 ON HIGH SCHOOL—Messrs. Duncan, Swapp, Taylor, Queenan, Regan.
 ON EVENING DRAWING SCHOOLS—Messrs. Taylor, Duncan, Walker.
 ON MUSIC—Messrs. Queenan, Wood, Hanlon.
 ON REPORTS AND PRIVATE SCHOOLS—Messrs. Walker, Wood, Hanlon.
 ON ACCOUNTS—Messrs. Swann, Duncan, Queenan.
 ON SCHOOL HOUSES AND HYGIENE—Messrs. Walker, Regan, Swann.
 ON RULES—Messrs. Regan, Queenan, Swapp.
-

ASSIGNMENT OF SCHOOLS

- MR. DUNCAN—High, Edson, Kirk street, Cottage street.
 MR. HANLON—Green, Worthen street, Cheever street, Morrill, Morrill Kindergarten.
 MR. WOOD—Lincoln, Howard street, Grand street, Plain street, Lincoln and Plain street Kindergartens.
 MR. REGAN—High, Butler, London street, Weed street, Agawam street, Carter street, Lyon street, Agawam street and Chapel street Kindergartens.
 MR. QUEENAN—High, Charles street, Central street, Ames street, Fayette street, Charles street Kindergarten.
 MR. SWANN—Varnum, West Sixth street, Tenth street, Lakeview Avenue, Billings street, Varnum Kindergarten.
 MR. SWAPP—High, Bartlett, Pawtucket, Training, Cross street, Cabot street, New Moody street, Lexington Avenue, Pawtucket and Bartlett Kindergartens.
 MR. TAYLOR—High, Highland, Franklin, Dover street, Powell street, Pine street, Middlesex Village, Franklin, Dover and Pine street Kindergartens.
 MR. WALKER—Moody, Pond street, High street, Sycamore street, Moody Kindergarten.

ASSIGNMENT OF EVENING SCHOOLS

MR. WOOD — High, Edson, Railroad street.

MR. SWAPP — Bartlett, Green, Cheever, Pawtucket.

MR. SWANN — Varnum, Aiken avenue, Old Moody, Colburn.

MR. TAYLOR — Mann, Worthen street.

MR. HANLON — Butler, Franklin.

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CAMILLE ROUSSIN.

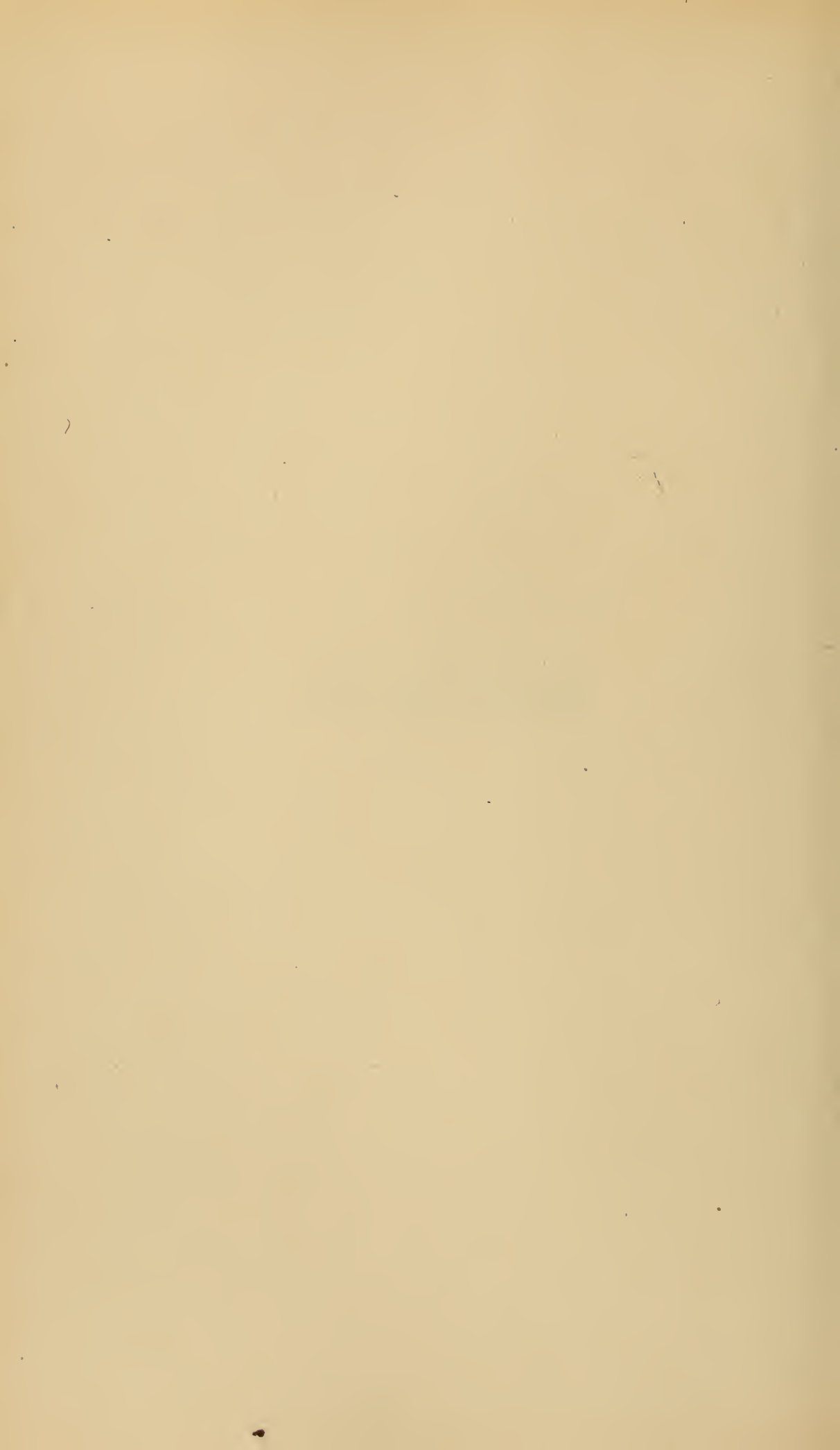
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REGULAR MEETINGS OF THE SCHOOL COMMITTEE

January 31.	February 28.	March 28.	April 25.
May 31.	June 27.	July 25.	August 29.
September 26.	October 31.	November 28.	December 26.

REPORTS



Report of the School Committee

GENTLEMEN OF THE BOARD :

The law which imposes upon school committees the duty of making annually a full report upon the condition of the schools is a very old one, and in our opinion a very good one. The children and youth of a city are beyond all comparison its most important possession, and the schools in which these children are being educated are, or ought to be, a matter of the greatest interest to every citizen. The public, therefore, has a right to a report on the work of the year, and on present conditions, as full and as frank as can be made. To meet these requirements as fully and as frankly as possible is certainly the wish of the present committee.

Before the appointment of superintendents of schools (that is, so far as Lowell is concerned, until within the last forty years), the duty of attending to all details, collecting all statistics, and writing the whole report, rested on the members of the committee ; but in more recent years the larger part of this work has very properly been turned over to the Superintendent. In most cities, indeed, if we may judge from the reports we have

examined, the committee has retired from the report-making business altogether, and has satisfied the statutory requirement by simply adopting as its own the report of the Superintendent. This has, indeed, been done in Lowell once or twice, the committee on reports only taking the space required to refer readers to the fuller report of the Superintendent, but generally committees have had something of their own to say, and have said it well.

Financial conditions, for instance, were discussed by the committee on reports in 1901 in considerable detail, and with a clearness which left nothing to be misunderstood by any one who would give the report fair consideration. The need of new school houses has been emphasized by nearly all committees in recent years, and that only real needs were presented is well shown by the makeshift structures now adorning the yards of the Lakeview Avenue and Highland schools. The committee of 1899 asked that janitors of school buildings be placed in the charge of the school committee; a change which would undoubtedly be for the good of both janitors and schools, whatever might be its effect upon the committee, and the report of 1903 spoke what was believed to be the final word on the subjects of penmanship and music.

Of this custom of Lowell committees in the past the present committee on reports desires to express its unqualified approval. However full and excellent the report of the Superintendent may be, there are often

subjects to be discussed on which the committee can speak more appropriately than anyone else. This is not to suggest the possibility of differences of opinion between the Superintendent and the committee. If we assume that the former says neither more nor less than just what should be said, there would still be left topics on which the committee could speak with an authority which the Superintendent does not possess, and on these, vigorous and pointed opinions are greatly to be commended.

The work of the school committee in the past year, and, indeed, in all recent years, has been very pleasant in that mutual courtesy and kindly consideration has prevailed between members, and honest differences of opinion have been so harmonized by informal discussion that minority reports of standing committees have been unknown, and the action of the full board has been unanimous on all matters of importance during the year, except, perhaps, the question of increase of salaries in June. On this all members were agreed in wishing that it were possible to make many advances, but they differed on the way or place in which an increase should be made. The result was a report from the committee on salaries recommending that all salaries remain as before except a few rewards of long service in the High School, and that the report was accepted by a large majority, though not by a unanimous vote. That a committee so diverse in its personality, representing nine different wards, and divided almost equally between two great

political parties, should be able to have so nearly unanimous action through the year certainly speaks well for the spirit of fairness which has actuated all its members, and ought to be a strong recommendation to the confidence of the public.

We note with regret that the term of office of three members has expired, and that, not having been candidates for re-election, their membership in the committee ends with the year. Mr. Murphy has served six years, Dr. Marston four, and Dr. Allen two. All have been intelligent and active public servants, and all deserve the thanks of the public for their services. Members of the School Committee receive no pay, and the work they do is much greater than is generally supposed. The board has a regular meeting each month, in addition to special meetings which may be called at any time, and there are also at least fifty meetings of standing committees to be attended. Schools are to be visited, conferences with the Superintendent, with parents, and with teachers are frequent, and altogether the amount of time given to the work is very considerable. That men are willing to give so much of their time, and to face the possibility of loss through fidelity to duty, is certainly a matter of commendation, which comes all too rarely.

The schools of the city are all, so far as we know, in good condition and doing good work. To the teachers the thanks of the committee, and the public, are due for a zeal, a fidelity, and a success, which are almost universal. For statistics of the work done, discussion of

present conditions, and suggestions for future action, see the report of the Superintendent.

Respectfully submitted.

JOHN J. HANLON.

WM. F. REGAN.

OTIS ALLEN.

REPORT OF THE Superintendent of Schools.

OFFICE OF THE SUPERINTENDENT OF SCHOOLS,
DECEMBER 31, 1904.

GENTLEMEN OF THE SCHOOL COMMITTEE:

In accordance with your rules, I have the honor to submit the following as my report for the year 1904:

SUMMARY OF STATISTICS.

Value of real and personal property	\$71,614,907
Population by census of 1900	94,969
Number of polls	25,555
Increase for the year	996
Number of children between five and fifteen years of age, September 1, 1904	14,290
Ward One, 876	Ward Six, 2010
“ Two, 1059	“ Seven, 2859
“ Three, 1407	“ Eight, 1724
“ Four, 1612	“ Nine, 1640
“ Five, 1103	

Number of public schools	59
One High, nine Grammar, thirty-three Primary, two Mixed, one Training, thirteen Kindergartens.	
Number of public school buildings	53
Number of school rooms in actual use	286
High 34 ; Grammar, 117 ; Primary, 117 ; Mixed, 4 ; Kindergarten, 14.	
Number of elected teachers December 31, 1904	307
Absent on leave, 2 ; in actual service	305
High School, nine men, twenty-four women.	
Grammar Schools, nine men, one hundred seven women.	
Primary schools, one hundred eleven women.	
Training School, ten women.	
Mixed Schools, three women.	
Kindergartens, twenty-five women.	
One supervisor of kindergartens.	
Two teachers of drawing.	
Two teachers of music.	
One teacher of sewing.	
One military instructor.	
Number of teachers of Evening Schools, term of 1903-'04	192
Whole number enrolled in Evening Schools, term 1903-'04	4826
Whole number enrolled in Day Schools	12,223

Average number belonging to Day Schools	10,401
High, 890 ; Grammar, 4539 ; Primary, 4406 ; Mixed, 120 ; Kindergarten, 436.	
Average attendance	9479
High, 847 ; Grammar, 4226 ; Primary, 3941 ; Mixed, 121 ; Kindergartens, 344.	
Average number belonging to each teacher	34
High, 28 ; Grammar, 36 ; Primary, 37 ; Mixed, 33 ; Kindergarten, 17.	
Average belonging to each room	37
High 26 ; Grammar, 39 ; Primary, 38 ; Mixed, 33 ; Kindergarten, 31.	
Average per cent. of attendance	91
High, 95 ; Grammar, 93 ; Primary, 89 ; Mixed, 93 ; Kindergarten, 79.	
Average cost of each pupil, for tuition only, based on the average number belonging	\$20.84
High, \$39.19 ; Grammar, \$19.35 ; Primary and Mixed, \$16.35 ; Kindergartens, \$28.65.	

RECEIPTS AND EXPENDITURES.

RECEIPTS.

Appropriated and assessed in 1904 \$300,000.00

EXPENDITURES.

Paid to teachers of day schools:—

High School	\$ 34,883.35
Grammar Schools—Bartlett School, \$ 8,574.18	
Butler “ 12,663.88	
Edson “ 8,633.08	
Green “ 8,438.69	
Highland “ 11,818.06	
A. Lincoln “ 7,718.58	
Moody “ 6,957.15	
Pawtucket “ 5,699.77	
Varnum “ 12,116.37	
	<hr/>
	82,619.76
Primary and Mixed Schools	71,246.47
Training School	11,451.81
Kindergartens	12,493.50
Special Teachers	4,085.00
Total paid for instruction in day schools,	216,779.89

Evening Schools ;—

Teachers	\$15,808.00
Janitors	1,902.75
	<hr/>
	17,710.75

Drawing Schools :—

Teachers	\$3,922.00
Janitor	87.00
	<hr/>
	4,009.00

<i>Amount carried forward</i>	\$238,499.64
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Amount brought forward \$238,499.64

Cost of supervision : —

Salary of Superintendent of Schools	\$3,000.00	
Office Assistant	540.00	
Truant officers (four)	4,100.00	
Assistant in supply room.....	599.00	
	<hr/>	\$8,239.00

Total of Salaries \$246,738.64

Fuel	\$20,491.94
Water	1,195.11
Gas for day schools	475.53
Gas for evening schools	892.53
Bills of Superintendent of Public Build- ings for repairs	1,801.39
Repairs, furniture, curtains, etc.....	1,071.47
Electrical repairs and maintenance....	851.12
Text books	5,939.69
Writing and drawing books, etc.	4,632.26
Supplementary reading	2,215.07
Bills of Middlesex County, board of truants	2,794.62
Manual training equipment, etc.....	431.41
Printing, including annual report	1,695.21
Kindergarten equipment and supplies .	418.29
Supplies, Manual Training School....	129.10
Janitors' supplies	1,490.05

Amounts carried forward \$46,424.79 \$246,738.64

<i>Amounts brought forward</i>	\$46,524.79	\$246,738.64
Board of horses, repairs of wagons, etc. .	935.32	
Power for ventilating purposes	1,612.21	
Electric lighting	791.37	
Material for sewing classes	269.35	
Apparatus for High School	185.47	
High School Regiment	325.50	
Graduations	389.13	
Rent of Room and Land	341.00	
Equipment of Commercial Dept.....	294.70	
Miscellaneous	1,125.31	
	<hr/>	
Total of bills		\$52,794.15
		<hr/>
Total expenditures		\$299,532.79
		<hr/>
Balance to Treasury Fund		467.21

SCHOOL HOUSES

RECEIPTS

Appropriated and assessed	\$66,750.58	
Received from other sources	2,239.45	
Total		68,990.03

EXPENDITURES

Janitors	40,606.73	
General Repairs and Labor	28,383.30	
Total		68,990.03
		<hr/>
Temporary house in Highland school yard		
Appropriation		\$2,700.00
Expenditures		2,699.57
		<hr/>
Returned to Treasury Fund .....		.43

SCHOOL CENSUS AND ATTENDANCE

The number of children between five and fifteen years of age in the city in September last, as shown by the census, was 14,290, a number differing but slightly from that of last year. The polls, after falling off 2021 in the three years ending with 1903, showed an increase of 996 in 1904, and a similar increase in the number of children of school age was anticipated, but did not occur. The reason why it did not is probably found in the changed personnel of our immigration. The natives of central and western Europe and of Canada who have until recently formed the mass of new arrivals have usually had families of good size, and an increase in the number of men meant an equal or greater increase in the number of children. The Greeks and other peoples from southeastern Europe and from Asia, however, who have been coming to us so rapidly in recent years, rarely have children with them, or at least children not old enough to work in the mills, and there is therefore a much more rapid increase of adult population than of children.

The average number of children belonging to the schools in the school year ending in June, 1904, as stated in the foregoing tables of statistics, was 10,401, and the average attendance 9,479, an increase over the previous year, small it is true, only 71 in number attending, but yet gratifying when made in the face of an actual decrease in the number of children in the city. The opening of the schools for a new school year last September showed a still further gain in number belonging, from 10,373 in 1903, to 10,666 in 1904, an increase of 293.

RECEIPTS AND EXPENDITURES

The expenditures of the school department in 1904, \$299,532.79, were less than in 1903 by \$12,989.95. In salaries there was an increase of \$2,813.22, an increase due in part to higher salaries for a few teachers, and in part to an increase in the number of teachers employed, but this was much more than offset by the decrease in the cost of fuel from \$34,871.04 in 1903 to \$20,491.94 in 1904, a gain of \$14,379.10.

In the preceding tables the salaries of teachers and janitors of evening schools are given separately, but no attempt is made to separate other expenses of the evening schools from those of the day schools. It would, indeed, be very difficult to do this with absolute accuracy. Most evening schools are kept in houses which are used in the day time for day schools; the coal for heating is taken from the same bin for both, and gas for lighting is drawn through the same meter. The charge of \$791.37 for electric lighting is mainly for evening schools, but not wholly. Books and supplies are purchased in wholesale quantities as far as possible, in order to get the advantage of wholesale rates in prices, and are distributed to schools as needed. Our system of bookkeeping, however, makes it a matter of no great difficulty to find the cost of supplies sent to any class of schools, or to any individual school for that matter, so that an accurate separation here is possible, and when made it shows expenses for evening schools alone to be as follows: Text books, \$521.88; writing books, \$298.99; other supplies \$214.47, and a close approximation of the cost of fuel and light is \$625.61 for the former and \$1600 for the latter, a total of \$3,261.95, or, including salaries as previously noted, \$21,719.75, a final total of \$24,981.70. The average number of pupils belonging in the evening schools, including 318 in the evening drawing schools, was 2876, and the average expense per pupil \$8.69, a sum

far larger for the hours spent in school than is the expense per pupil in the day schools. The expense per pupil in the evening drawing schools is largest of all, \$12.61.

The expense of the schools per pupil for instruction only,—that is the quotient obtained by dividing the total of salaries of teachers by the average number of pupils belonging to the schools, is easily obtained, and is given in detail in this report on page 21. The average expense per pupil for books and supplies is an equal matter of interest, but the question as to just what constitutes “supplies” is less easily settled, and the difference of opinion among school officers on this point is so great that the comparisons which are often made have little value unless the basis of each is carefully explained. All would agree, probably, that text books, stationery, etc., come under this head, but how about scissors and cloth for sewing classes, lumber and paint for manual training classes, or chemicals for laboratories? The distinction between supplies and equipment is also a very close one at times. In the course of ten years several kindergarten chairs and tables are out of commission, for instance; if new ones are purchased is the cost to be charged to equipment or supplies? Those who wish to make it appear that they are economical in the matter of supplies can easily vary the final totals by pretty large sums each year by putting such items into equipment. In Lowell, however, the custom has always been to charge all purchase of new furniture or material which is to replace that which is no longer usable to supplies, and to charge to equipment only that which marks a distinct advance on previous work. Bearing this fact in mind the following figures may be of interest :

Average cost per day school pupil (kindergartners who use no books omitted) for text books and supplementary reading, \$0.77 ; average per pupil for text books, writing and drawing books, paper, pens, pencils, etc., etc., \$1.20 ; average per pupil, kindergartners included, for all possible supplies, including with the foregoing

sewing supplies \$269.35, kindergarten supplies, one-half of which is equipment, \$418.29, manual training supplies \$129.10, and laboratory supplies, \$185.47, \$1.23. This sum is, I think, somewhat below the usual average in Lowell, and is certainly a good deal below the average expense in most cities in the country.

The schools earned in 1904 \$6086 in tuitions. Deducting this sum, with \$2794.62 paid for board of truants, from the total expenses of the whole school department for day schools, and dividing by the average number of pupils belonging through the year we get an average per pupil of \$25.64. This sum is very low indeed as compared with most cities of the size of Lowell, partly because our schools are managed economically but also quite largely because in most cities janitors of day schools are paid by the school department, making a very material item of expense from which the Lowell school department is spared.

Expenses in 1905 will inevitably be somewhat larger than in 1904. We begin the year with one more special teacher and four more teachers in grammar schools than one year ago, a matter of some \$2400, and the increase of salary voted to high school teachers last June amounts to \$2800 annually. Changes and additions in the high school annex now under consideration and likely to be voted will amount to \$1000 or more. The addition of these sums to the amount actually expended in 1904 will make \$306,000, in round numbers, and this sum will be the estimate to be presented to the committee on appropriations in January, 1905.

SCHOOL HOUSES

In the school year ending in June, 1904, the Green and Varnum schools were each forced by overcrowding to place a teacher and class of pupils in their assembly hall, and the Butler and Highland schools were each obliged to locate two teachers and two classes in the same inappropriate place. In the Butler the

shape of the hall made it possible to have these so-called "rooms" of pupils quite far apart, in corners of the hall diagonally opposite, and the two did not very seriously disturb each other. At the Highland, however, conditions did not permit of a similar arrangement, and the two "rooms" were necessarily side by side. They were separated by a cloth screen, which was a complete enough barrier to vision but a very slight interruption to sound, and the work of the teachers and pupils could only be carried on at a great disadvantage. Anticipating, too, the necessity of placing still a third class in the same hall in the fall a petition was presented to the city council for the finishing off during the vacation of two new school rooms in the open attic which is over the rear of the building. This attic is large enough and is sufficiently well lighted to provide space and other needed conditions for two thoroughly good rooms, and the only objection to them is that they would be on the third floor, a common enough thing in most cities but happily rare in Lowell. A largely signed petition of citizens was also presented to the city council asking for better school accommodations at the Highlands either by the building of a large addition to the present schoolhouse or by the erection of a new house further south. Such a building, however, would probably require two years to secure an appropriation and erect, and the need of some increased accommodation was so imminent that it was thought best to press the request for the two rooms to be finished at once without regard to possible action on the demand for a new house.

The council, however, did nothing with either petition, and when the school reopened in September it was found necessary to place in the hall not only one but two more classes with three teachers, making four classes and five teachers in one open hall. Conditions were then, of course, simply intolerable, and to relieve them a temporary building of four rooms was hastily erected in the school yard. This building cost but \$2700 equipped for use. Its

flat roof makes it, architecturally, a most unpleasing blot on the landscape, but its rooms are well arranged and comfortable. It is doubtless making the best of an unendurably bad condition, but should be considered only as the temporary substitute for the larger and better building which is needed.

In Centralville where land for a new house was purchased in 1903 it was expected that a new building would be begun in 1904, but the city council could not agree on the kind of house to erect, and nothing has been done. Probably a new house will be built in 1905. In the meantime the master of the Varnum school is using one of the two kindergarten rooms in his house for a class of his pupils, and will be forced in February next to place a second "room" in his assembly hall. For his school it is evident, therefore, that relief cannot come too soon.

The Pawtucket school, long overcrowded, has been obliged this year to accept what seems to be the fashionable method of relief in Lowell, and has located a class of pupils and teacher in its assembly hall. The Moody has expanded to the extent of one room, but, happily, had an unoccupied room in which to locate the new teacher with her class. Would that all our grammar schools were equally fortunate.

The Butler school still lacks the land for a school yard for which a plea has been made annually for several years, and a new building would already be a great convenience and will be an absolute necessity in the immediate future.

Of the primary schools none are overcrowded except Lyon Street, and this could be relieved at once if parents were willing to send their children, as they might easily do, to Carter Street, Agawam Street and Chapel Street schools which are on the three sides of the one in question.

SCHOOLS AND TEACHERS

Four additional school rooms were opened during the year, and four new teachers were employed, one each at the Moody and Pawtucket schools and two at the Highland. The work of Mr. Ketchum who taught drawing in the high school one day a week in 1903 was extended to enable him to give also two days per week to the supervision and teaching of drawing in the grade schools, thus increasing the number of special teachers by one. Rooms and teachers in the primary schools and the kindergartens remain as before, though one kindergarten has been transferred from the Worthen street to the Morrill school building, a change which seems a benefit to all concerned. The kindergarten itself has increased in numbers in its new quarters, it occupies a room which would otherwise remain unused, while at Worthen street its absence has permitted the bringing of one class of children from the third to the first floor, and has added a much needed room for the use of the evening school.

Changes in the roll of teachers have been as follows :

DIED.

Term of
Service

LIZZIE M. HADLEY of the Ames Street School.	35 years
--	----------

RESIGNED.

BERTHA J. CURTIS of the Bartlett School	5 years
LIZZIE A. MOLLOY of the Cottage Street School	17 "
ELIZABETH WORTHLEY of the High Street School....	13 "
MARY A. MEEHAN of the Fayette Street School	9 "
FRED W. PUTNAM of the High School	5 "

TRANSFERRED.

MAUDE E. GREEN, from Middlesex Village to High Street.

FRANCES CLARK, from the Bartlett Primary to the Bartlett Grammar.

ELECTED.

ANNA T. COBURN, to the Central Street School.

MARY G. COURTNEY, to the Lakeview Avenue School.

ANNIE V. DONOGHUE, to the Varnum School.

ESTHER M. DOWNING, to the Lincoln School.

KATHERINE G. EGAN, to the Middlesex Village School.

MARGARET S. JAMIESON, to the Howard Street School.

EVA G. MAGOON, to the Agawam Street School.

MARGARET G. McDONALD, to the Lincoln School.

JENNIE E. ROGERS, to the Highland School.

HELEN D. SWAIN, to the Pine Street School.

EDWIN M. ROBERTS, to the High School.

BRIDGET K. SMITH, to the Bartlett Primary School.

In the death of Miss Hadley the city loses one of its ablest and most successful teachers. Visiting her room the last week in October ten years or so ago I found a class of little ones who had entered school the previous month, reading and writing many short words. From the ease and readiness with which they recognized these words I jumped to the conclusion that the class had received special drill on a limited list which they had memorized, and I asked Miss Hadley how many words the class had mastered. My question was so foreign to her method of teaching that she did not at first understand it, but when she did her answer was to assert that the list included all monosyllables in the English language which do not contain silent letters. Further testing seemed to show that she was not claiming too much. I did not, indeed, give

her class all the short words in the language, but a great many were given, and all pronounced at once. A few years later I recalled this incident to Miss Hadley, confessing the surprise I felt, and was told in return that she hoped I did not think the case was unusual in her room. To prove that it was not she tested a class at once, with much the same result as before. After this each year she made a point of showing me the work of her five-year-olds some time in the fall or early winter when they had been her pupils seven or eight weeks, and they were always able to do work of about the same sort as that I had first noted. This was, of course, because of their mastery of phonics, and their ability to apply to any word the sounds which are common in all. In the application of this principle I have never seen Miss Hadley's equal, and if anybody, anywhere has ever been able to do more I have never heard of it. Miss Hadley was, doubtless, one of the teachers who are "born, not made," but her zeal and fidelity were at least the equal of her natural ability, and she remained an eager student of education to the very end of her life. Few teachers have her ability, but all can exemplify her spirit if they will. Most teachers of her class, indeed, in Lowell or elsewhere, are constantly reading, studying, investigating, experimenting, and so trying to make their good work better still, just as Miss Hadley did, and it is only the very poor teachers who are sure that they already know so much that there is no use to learn more. To such the example of Miss Hadley is commended.

HIGH SCHOOL

The average number of pupils belonging in the High School increased from 839 in 1903 to 890 in the year ending in June, 1904, and in September last there was a further increase to 933. No addition, however has been made to the teaching force.

In an earlier paragraph attention was called to the fact that

the city received \$6086 in tuitions in 1904. Of this sum \$6000 in round numbers should stand to the credit of the High School, and would make a very material reduction in its expenses.

The commercial department, established in 1900, graduated its first class in a full four years course last June. The class numbered 46, 12 boys and 34 girls, and several others who might have graduated, were tempted away from the school in the last half of their fourth year by the offer of desirable positions. The number of graduates in this department, by the way, measures but a small part of its work. Many students in other courses have taken either the bookkeeping or the shorthand as an elective, and many others graduated in 1903 on a three years course. Almost all graduates either of last year or of this year who desired positions have secured them, and all these, so far as their teachers can learn, are doing well and are giving good satisfaction. The department has acquired a high reputation abroad, and the large number of students in it testifies to the appreciation in which it is held at home.

The graduation exercises of the school were held in Huntington Hall, June 21, the principal address of the evening being by President Faunce of Brown University. The number of graduates was 176, a class not larger than usual, but presenting, as compared with classes of a decade ago, one feature of interest which is also a subject for congratulations. Less than ten years ago, indeed, the proportion of students graduating in the three years' course to that of the four years' course was more than three to one. The class of 1896, for instance, had in it 27 in the four years' course and 94 in the three years' course, while in the class of 1904 the conditions were nearly reversed, their being 120 in the five and four year courses and but 56 in the three years' course. The building in which the exercises were held has since been destroyed by fire and is not likely to be rebuilt, so that the class of 1904 bids fair to be the last to graduate in the old historic hall.

In accordance with custom the program, the names of the graduates, the names of the Carney Medal winners, and of the honorable mention students (those holding an average of 90% or more) are given herewith.

ORDER OF EXERCISES

1 CONCERT OVERTURE Turandot *Lachner*
AMERICAN ORCHESTRA

2 MARCH Under One Flag *Von Blou*
AMERICAN ORCHESTRA

3 CHORUS The Heavens Are Telling, from "The Creation" *Hayden*

4] SALUTATORY Flowers in Song and Story
ELSIE FARSON BRADT

5 DOUBLE QUARTET

First Soprano: MISS HART '04, MISS MOODY '04

Second Soprano: MISS WHITE '04, MISS HUNKING '05

First Alto: MISS LIBBY '07, MISS COVE '05

Second Alto: MISS O'BRIEN '05, MISS DONNELLY '04

(a) When? *Carl Busch*

(b) A Little Dog Barked at the Big Round Moon *Grace Wilbur Conant*



6 REMARKS AND INTRODUCTION OF SPEAKER

MR. WILLIAM W. DUNCAN, President of School Board

7 ADDRESS

PRESIDENT WILLIAM H. P. FAUNCE OF BROWN UNIVERSITY

8 MALE QUARTET A Moonlight Sail Geibl

First Tenor: BUCKLE '05

Second Tenor: WHIPPLE '05

First Bass: CHASE '04

Second Bass: GOOKIN '04

9 PRESENTATION OF PICTURE by Class of 1904

MELVIN FREEMAN MASTER, Class President, 1904

ACCEPTANCE FOR THE SCHOOL

MR. DENNIS J. MURPHY, of the High School Committee

10 VALEDICTORY Competition

DENIS AUGUSTINE O'BRIEN

11 SOPRANO SOLO AND MALE CHORUS Wynken, Blynken, and Nod

Ethelbert Nevin, Op. 9

Soprano: MISS MOODY '04

First Tenor: MESSRS. BUCKLE '05, O'BRIEN '04, BARTON '04,
WHIPPLE '05

Second Tenor: MESSRS. MCDANIELS '05, LEITH '07,
SANDERS '07, HAGGERTY '05

First Bass: MESSRS. CHASE '04, PARKER '04, HATCH '04,
CORCORAN '04

Second Bass: MESSRS. GOOKIN '04, VARNUM '04
KEABLES '05, SHAW '05

12 PRESENTATION OF CARNEY MEDALS

Honorable mention of those who have attained a scholarship
rank of 90 per cent.

MR. ARTHUR K. WHITCOMB, Superintendent of Schools

- 13 CHORUS The Lake *Franz Abt*

- 14 PRESENTATION OF DIPLOMAS

HIS HONOR, THE MAYOR, CHARLES E. HOWE

- 15 SINGING OF THE CLASS ODE

Music by F. M. A. Venua

Words by ALICE EMILY MANNING

With hearts aglow, we're gathered here,
To sing farewell with parting cheer ;
The time too soon is drawing nigh
For classmates all to say Good-bye.

Farewell to friends and teachers all,
Whom oft with love we shall recall ;
Farewell to all our schoolmates dear,
The parting time at last is here.

But the future seems so fair and bright
As we stand here on this parting night,
That with a brave and hopeful heart
We each may on life's journey start.

- 16 FINALE On Emancipation Day *Cook*

AMERICAN ORCHESTRA

GRADUATES

FIVE YEARS' COURSE

Denis Augustine O'Brien

FOUR YEARS' COURSE

Arthur Bradley Barnes
Charles Leland Batchelder
Karl Bicknell
Mitchell Joseph Brosnan
John Harry Byrne
Abel Robert Campbell
Lee Howard Campbell
Burton Wolcott Cary
George Ezekiel Coburn
Marcus Johnson Cole
Thomas Callaghan Corcoran
William Andrew Dacey
Paul Augustine Davis
Leroy Frederick Fuller
Edward Joseph Garrity
William Leonard Gookin
Ray Bragdon Gordon
Maurice Ernest Harris
Lester Raymond Hayward
Willard Roswell Henderson
Charles William Henry Hoyt
Sidney Hewes Hunking
John Francis LeCan
Howard Alvord Leland
Edward Joseph Lynch
Melvin Freeman Master
Frank Leslie Miles
Guy Darrel McVicker
Thomas Benedict O'Hearn
Joseph Francis O'Neil
Robert Butcher Parker
William Woodward Rawlinson
Joseph Leonard Sargent
Albert Terence Scannell
Joseph Eugene Shanley, Jr.
Robert Watson

Daisy Odiorne Abbott
Elena Marelyn Abbott
Blanche Estelle Atkinson
Mertie May Bachelder
Ruth Merrill Bailey
Josephine Irene Boyle
Elsie Farson Bradt
Ruberta Marie Bramhall
Annie Leslie Brown
Carrie Louise Brown
Ethel Marie Burns
Margaret Mabel Cassidy
Emma Sophia Claus
Anna Theresa Coffey
Caroline Vaile Cooke
Mary Christina Frances Curran
Theresa Belle Darling
Frances Louise Donovan
Bessie Durston
Ruth Lane Eaton
Marion Faulkner
Mary Agnes Flynn
Alma Evelyn Fowler
Eugenie Viola Frappier
Mary Margaret Furlong
Helen Burt Gegenheimer
Elizabeth Anna Gilinson
Hazel Sophia Gilmore
Ida Belle Gray
Alice Thompson Greene
Florence Chase Greenlaw
Rose Verecunda Grennan
Helen Rose Halloran
Ivy Lillian Hands
Loretta Alice Hannifin
Mae Lillian Hart

Anna Margaret Higgins
 Alice Mary Hill
 Florence Maud Holgate
 Elizabeth Anna Johnson
 Mary Helen Kelley
 Myrtle Killpartrick
 Jennie Frances Kirwin
 Louise Agnes Beatrice Lennon
 May Ella Patricia Lowney
 Charlotte Rosalyn Macrae
 Alice Emily Manning
 Ella Edith Marshall
 Mary Frances Helen Mollahan
 Lenore Vera Moody
 Evelyn Carrie Ober
 Anna Madeline O'Neil
 Ethel Noyes Parker
 Jennie May Powell
 Mabel Bertha Purdy
 Elizabeth Munroe Reed
 Julia Frances Richardson
 Mary Emma Richardson
 Mary Estelle Richardson
 Gertrude Katherine Roach

Ethel Abigail Sargent
 Millie Alice Severance
 Margaret Anna Shanley
 Dora Blanche Sherburne
 Margaret Mitchell Snow
 Mary Spalding
 Ethel May Stevens
 May Davenport Stone
 Marie Regina Sullivan
 Sadie May Sweatt
 Gertrude Katherine Teague
 Margaret Annabelle Teague
 Alice Mabel Unwin
 Regina Vigeant
 Elizabeth Morse Walsh
 Katherine Mary Walsh
 Leone Edith Welts
 Helen May Whitcomb
 Isabelle Eliza Wiggin
 Maud May Willett
 Julia Belle Wing
 Vera Mildred Wood
 Pearl Luella Woodward

THREE YEARS' COURSE

Sidney Cyrus Barton
 William Baxter
 Fred Albert Berry
 Harry Warren Bickford
 Wesley Edward Brow
 Leo Waldemar Chase
 James Robie Cove
 Joseph Leo Cunningham
 Earl Voter Daggett
 William Alexander Driscoll
 Thomas Graham Farrell
 Everett Lincoln Field
 John Henry Finnegan
 Clinton Russell Hanson
 Harry Augustus Hatch
 Constant Clement Hinert

Alice Rundlett Barclay
 Edith May Beane
 Marion Morse Bill
 Annie Veronica Brodley
 Susie Veracunda Burns
 Marion Alice Doherty
 Alice Louise Donnelly
 Estelle May Drury
 Ethel Evangeline Hall
 Ellen Wilson Jenkins
 Alice Theresa Kane
 Helen Frances Keefe
 Ada Clayton Kitchen
 Honora Hildergarde Madigan
 Ella Mae Martel
 Katherine Louise Morris

Warren Frank Howell
 Charles Augustine Mahoney
 Felton Lord Moody
 Allan Douglas Parker
 Herbert Lang Parker
 Albert Warren Pease
 Arthur Lewis Putnam
 George Freeman Severance
 Thomas Shaw
 Ralph Lewis Sheppard
 Paul Samuel Stephens
 Arthur James Teague
 Thomas Howard Varnum
 Ralph Albertus Wilson

*Mary Anna McArdell
 Mary Cecelia McLaughlin
 Katharine Philomena O'Brien
 Florence Ardella Oke
 Mabelle Alice Parker
 Alice Magdalen Roach
 Ethel Pearl Trueworthy
 Sophie May White
 Maude Ethel Whitney
 Alma Luella Wright

CARNEY MEDALS

Denis Augustine O'Brien
 Ray Bragdon Gordon
 Arthur Bradley Barnes

Elsie Farson Bradt
 Ethel Noyes Parker
 Elena Marelyn Abbott

HONORABLE MENTION

Dora Blanche Sherburne
 Helen May Whitcomb
 Evelyn Carrie Ober
 Caroline Vaile Cooke
 Millie Alice Severance
 Ruth Merrill Bailey
 Elizabeth Anna Gilinson
 Alma Evelyn Fowler
 Anna Theresa Coffey
 Mary Frances Helen Mollahan
 Annie Leslie Brown

May Davenport Stone
 Hazel Sophia Gilmore
 Margaret Mitchell Snow
 Margaret Mabel Cassidy
 Gertrude Katherine Teague
 *Mary Anna McArdell
 Mary Ella Patricia Lowney
 Mertie May Bachelder
 Alice Emily Manning
 Mary Spalding

*Deceased

ATHLETICS

Athletics are at least as old as the times of the Persians among whose nobility, according to Herodotus, education for the youth consisted of training in courtesy, in telling the truth, and in athletic exercises, and of the Greeks among whom sound bodies were given honor at least equal to that accorded to sound minds, but the problems connected with the subject in the public schools of this country are decidedly new. Boat racing between universities like Harvard and Yale does indeed go back for a generation or more, but football and track meets are much more recent, and in the public schools it is only within five years or less that the subject has become prominent enough to really force attention upon it. Today, however, no problem connected with the schools is arousing greater interest, and upon none is opinion more divided. School committees everywhere realize that they have an elephant on their hands, and they do not know what to do with it. That its possibilities for good are as great as are its certainties of evil if left uncared for only adds to the seriousness of the problem, and if a committee seeks to learn wisdom from the experiences and the conclusions of others it faces chaos, for no two cities have had the same experience, and scarcely any two have come to the same conclusion.

In general it may be said that the subject has been forced to the front by the students, their parents, and the public, in the face of distrust and possibly opposition on the part of teachers, and indifference on the part of committees. Boys and girls have organized "teams" of various kinds, or have formed athletic associations, sometimes with the sympathetic co-operation of teachers but oftener with a reluctant half-hearted support, if indeed, with any support at all. Then they have played games. If they won the school and the city became proud of them, and interest in their doings was increased ; if they lost the school and

the public alleged that failure was due to lack of support, lack of training, lack of efficient management, etc., and their teachers had to bear the blame so that either victory or defeat brought pressure upon school authorities to take the matter in hand. In some cases even worse things happened. A team from one city, after a game in another city, conducted itself in a way to bring discredit not only upon the school it represented but upon the city in which it had its home. The master of the school made haste to disclaim all responsibility, but not one in a hundred of those who knew of the conduct of the team ever read the excuse of the teacher, and those who did generally felt that if he really had no responsibility for what his boys were doing he was more rather than less at fault. This master, at least, was brought to the point where he must either take athletics under his supervision or forbid his pupils to engage in competitive contests at all. The latter alternative in most Massachusetts cities is already an impossible one. The name of the school is not copyrighted, and if it was, and if a master should force his pupils to drop athletics under penalty of expulsion, it is perfectly evident that the public would not sustain him. The fact is athletics have come, and they have come to stay ; whether some of us like it or not makes little difference ; it is a situation and not a theory that confronts us.

From the foregoing it is evident that I have no illusions as to the effect which my personal opinion will have upon conditions which already exist, but I have no desire to use this fact as a shield behind which to hide from a record. I am, indeed, perfectly willing to stand up and be counted as one who has a very thoroughgoing belief in the propriety and the value, value for character building even more than for physical development, of most forms of wisely directed athletics. I believe fully in basket ball for both boys and girls, in base ball, track meets, etc., for boys, if properly supervised and managed, and I do not like football for grammar or secondary schools. In colleges and

universities the case is different; students there are older, more mature, with harder muscles, and always with more thorough training, but in teams from fitting schools the death roll each year is too appalling to allow me to endorse the game. Possibly if I had seen more of it I should like it better, but for me the frequent sight of a boy stretched upon the ground unable to rise, probably uninjured but possibly dead or dying, has in it much more of discomfort than of pleasure, and I do not like it. The fact, however, that all of the deaths this year, thirteen in number so far as reported, and nearly all the serious injuries, some 300 which are a matter of record, were in young and untrained teams, or in teams but poorly trained, emphasizes as nothing else can do the need of care and of proper training if the game is permitted to go on at all.

But to return to the general proposition. Five years ago I should have said that in dealing with athletics in cities the size of Lowell there were three alternatives : First to forbid all competitive meets ; second, to permit the students to run the thing to suit themselves, only interfering when some wrong action occurs or seems imminent ; and, third, to take charge of athletics as the school takes charge of other school exercises, though allowing, of course, as much initiative to the players as is possible. Today I believe only the last is feasible or right.

In Lowell, happily, the confidence of the students in the master has been so complete, and the master's co-operation in the work of the athletic association has been so sane and so sympathetic, that the relations of the two have always been in the highest degree harmonious and helpful. It is perfectly plain, however, that in some cases better results would have followed if the master and teachers of the school had had a closer relation to some of the teams. A good illustration of the benefit of the co-operation of a teacher may be seen in the present condition of the girls' basket ball team or of the boys' track team. For the latter the boys, after consultation between their executive committee and

Mr. Irish, have recently elected Mr. Woodward as manager. Mr. Woodward has never posed as an athlete, but he has good sense and the confidence of the boys. The latter are now sure that their business will be wisely managed, and that a fair show will be given to all. An excellent trainer is assisting them, and the zeal and good feeling with which they are taking hold of the work is delightful. Whether the team wins any meets or not is yet to be seen, and is, indeed, a secondary matter ; the important thing is that the boys are getting a very valuable physical training under conditions which tend to the development of good fellowship, good morals, and genuine manliness, qualities which give value to any exercise.

And, indeed, the fact that these benefits reach only a limited number, and this the class which needs it least, is the thing about it which is most to be regretted. The swiftest runner in the school is trained to run still faster in order that he, and the team of which he is a member, may win victories, but the slowest runner, the boy who really needs this training most, gets none of it, for he knows, and all his mates know, that no amount of training will make him a record breaker, however much good it may do him as an individual. It is this phase of the question which gives interest to the announcement of one of our most progressive colleges that next year it will make training for all kinds of athletic games and competitions a part of its curriculum for all students, the slow and the weak as well as the swift and the strong, and that this training, through the summer months at least, shall be out of doors. I shall be glad if the Lowell High School can sometime offer as much, though I am sorry to say that I see no place for such work, certainly such compulsory work, at present. In non-competitive physical culture exercises, though, the school is already doing more than most and about as well as the best. Military drill for boys and calisthenics for girls are required of all, and both are as good as ample equipment and expert teachers can make them. It

should also, perhaps, be added that the training of the athletic association is equally open to all, though not, of course, compulsory, and if those who are not athletic do not take it, it is because they do not choose to do so. The doors are always open, and Mr. Woodward gives assurance that all shall be welcome.

In a letter of the headmaster of the High School to the school committee, Dec. 27, 1904, he called attention to the remarkable development of athletic sports and activities in the school in recent years, and expressed the opinion that it is the function and duty of school authorities to supervise the whole work, and especially to see that reasonable care and prudence are exercised in all athletic exercises and competitions to prevent injury to players, and he pertinently adds that he does not see how we can escape this responsibility even if we desire to do so. "Large numbers of pupils," he says "enter into active training either for the physical benefit of the exercise, for the sport of the competition, or for the honor of places on the class or school teams. These athletic competitions are, in my opinion, dangerous for young people of the high school age unless they are physically fit for them and are properly trained and prepared. Mr. Burt and Mr. Woodward are spending all the time at their disposal in looking after the pupils who are taking part in athletics, but they do not feel that they have the expert knowledge to determine whether the players are in such condition physically that they may safely enter the competitive games, nor is it fair to ask them to take such a responsibility."

In view of these facts Mr. Irish recommends that a physician who has had experience in college athletics, and is familiar with modern methods of physical training in the colleges, shall be employed by the city as medical adviser ; that to him all questions of physical condition shall be referred, and that his decision shall be final. In this recommendation I most heartily concur.

In its drill hall in the High School annex the city is fortunate

in possessing one of the very finest places in New England for athletic exercises and competitions. A hundred yard track can easily be had with oval ends, and the height of the hall is sufficient for basket ball or pole vaulting. That it should have a few shower baths goes without saying, and I am glad to concur in the further request of the headmaster that a couple be put in, as can easily be done at moderate expense.

TRAINING SCHOOL

The Training School began the year with a teaching force of a principal and nine elected teachers, and thirteen other teachers who composed the so-called practice class. Of the latter eleven remained through the school year, and were given diplomas in June. This period of successful work in actual teaching is the last test required by the school committee for a certificate of qualification as teachers, and their graduation placed them on a preferred list of candidates from which all vacancies in the primary and grammar schools must be filled. This list, however, was already so large as to make it probable that there would not be work at once for all who were on it, and it was therefore thought wise to reduce the size of practice classes for a time. Classes for several years had averaged fifteen members, but for the class to begin work in September only nine were received. The method of selection was by an examination of the same general character as that employed in 1903. Of the accepted candidates three are graduates of colleges and six of normal schools.

At the beginning of the year the number of graduates of the Training School who had not yet been elected to permanent

positions was thirty-eight. Of these ten were elected in March, but their places were more than filled by the addition of the class of eleven in June. During the year three candidates have married, one was elected in September, one is doing advanced work at Radcliffe College, one has been forced to refrain from teaching on account of ill health, and eight have been teaching for the whole or a considerable part of the year in schools outside of Lowell. Of the remainder a considerable part have had permanent places or nearly continuous work all the time, but others, especially in the first part of the year, had many unwelcome resting spells between short and irregular services as substitutes. At this writing, however, in the last week in December, every one is employed, and there have been a few times when no certificate holder was available to fill vacancies. In such cases others, known as emergency teachers, are pressed into service until a Training School graduate is available. All graduates who are teaching out of town are still candidates for positions in Lowell schools, and will return to us as soon as permanent work here is assured or even probable.

The rules of the school committee provide that elections shall take place but twice a year, in June and December, and not at these times unless there are vacancies enough to permit the election of all the candidates who graduated from the Training School at the same time. There must, therefore, be ten or a dozen vacancies before there can be an election, vacancies less in number being filled in the meantime by appointment. This custom accounts for the fact that Lowell gives employment to many more substitute and temporary teachers than are needed in most cities. As the year closes there are four vacancies, one each at Cottage Street, Fayette Street, Ames Street and Middlesex Village, and five overflow rooms which could be made permanent if the committee should so choose, one each at the Moody and Pawtucket schools and three at the Highland. The class next in order for election has twelve members who are still candidates for positions.

The graduating exercises of the school were held in Colonial Hall, June 27, the principal address being delivered by Dr. A. E. Winship of Boston, and the diplomas being presented by Dennis J. Murphy, Esq., representing the committee on teachers. The names of the graduates will be found in the appendix, following the names of elected teachers.

EVENING SCHOOLS

Attendance in evening schools for the term of 1903-4 was the largest in several years, the average for twenty weeks being 2309. Several new rooms were opened, and several new teachers were employed. Attendance in October was not quite as great, but an average of 2338 has been maintained through the new term thus far, as against 2494 for the corresponding weeks in 1903. Numbers always decrease at and after the holidays of Christmas and New Year, and the final total of attendance for the whole term will probably be about two hundred less than for the previous term. In general policy no special change has been made, but the schools are all believed to be doing good work.

At the request of Commissioner Gay the evening schools were represented in the educational exhibit of the state at the St. Louis fair last summer, and the collection of material brought to light some proofs of work which was even better than had been expected. For the exhibit no material was accepted which was not wholly the result of things learned in the evening schools, work of pupils who had previously attended a day school being rejected although it was, of course, much finer than that of those who had never had the privilege of previous schooling. Most of the papers selected, indeed, were from boys and girls who had been in the country but

a few months, and in an evening school but one term. Many of them were unable to read and write in their own language, and all had learned all they knew of English in the evening schools. At least a dozen nationalities were represented. The work was crude and faulty, of course, but that such pupils could write intelligible English at all was certainly greatly to their credit, and to the credit of the schools in which they had been taught. Considering the circumstances their papers were surprisingly good, and while all pupils do not do as well, their presentation was conclusive proof of the possibilities at least of our evening schools.

Following are the statistics of the last completed term, with names of the graduates of the high school.

SUMMARY OF ATTENDANCE.

For the Term of 1903 - 1904.

SCHOOLS	Number of Rooms in each School	Teachers at beginning of Term	Teachers at Close of Term	WHOLE NUMBER ON TIME BOOKS			AVERAGE NUMBER BELONGING			AVERAGE ATTENDANCE			Percent. of Attendance
				Males	Females	Total	Males	Females	Total	Males	Females	Total	
High.....	20	22	20	449	474	923	252	250	502	223	232	455	87
Aiken Ave...	2	9	7	90	93	183	58	65	123	54	61	115	92
Bartlett (French)	5	11	9		196	196		152	152		121	121	85
Bartlett (Greek)	2	4	5		106	106		82	82		70	70	86
Butler.....	6	9	8	161	60	221	78	40	118	61	39	100	85
Colburn	4	10	5	164	98	262	71	56	127	62	50	112	88
Cheever St...	2	8	7		154	154		101	101		98	98	97
Edson.....	6	8	10	139	111	250	89	76	165	71	68	139	84
Franklin	5	9	9	151	93	244	78	58	136	70	53	123	86
Green	10	21	17	593		593	317		317	279		279	90
Hebrew	1	1	1	26		26	20		20	14		14	70
Mann	13	38	31	640		640	460		460	428		428	90
Old Moody..	3	6	6	101	95	196	32	36	68	42	51	93	73
Pawtucket...	2	4	2	65	24	89	35	13	48	28	11	39	81
Varnum.....	6	6	7	101	123	224	46	93	139	42	81	123	90
Totals.....		166	144	2680	1627	4307	1536	1022	2558	1374	935	2309	86

GRADUATES 1904

REGULAR COURSE — THREE YEARS.

Allen, John Joseph	Sullivan, Charles Francis
Andrews, George Francis	Winn, Michael Henry
Burke, Francis Thomas	Burns, Mary Aloysius
Chapdelaine, Rudolph	Callahan, Margaret Teresa
Coan, William Francis	Chalmers, Elizabeth
Dawson, Frederick Leroy	Clowater, Georgie Bertha
Dean, Ernest	Connerton, Della Ann Loretta
Jennings, Thomas Joseph	Cryan, Norah Elizabeth
Kelley, John James	Cutress, Mary Helen
Moss, Louis George	Dooley, Mary Elizabeth
McCarthy, John Joseph	Greene, Helen Anastasia
McDermott, Albert Leo	Henessey, Margaret Theresa
McDermott, Joseph Francis	Lincoln, Helen Madeline
McElroy, John Thomas	Martin, Mary Ann Elizabeth
O'Brien, Michael Francis	Riley, Margaret Mary
O'Hara, Thomas Henry	Rolfe, Gertrude Mary Angeline
Power, Thomas Edward	Tarpey, Mary Anna
Rotheray, Alfred	Tully, Agnes Angela
Sadlier, William Francis	Whitley, Loretta Veronica

STENOGRAPHY COURSE — TWO YEARS.

Beaumont, Herbert	Glynn, Margaret Mary
Donahoe, Thomas Patrick	Gormley, Josephine Gertrude
Edmonds, Robert John	Hanlon, Mary Gertrude
Maguire, Charles Joseph	Harris, Addie
McNaughton, William John	MacAdam, Mattie Mills
Riley, Thomas Raymond	O'Reilly, Katherine Frances
Brooks, Jennie	Quinn, Margaret Josephine
Cotter, Hazel Ruth	Quinn, Mary Beatrice
Coyne, Mary Frances	Robitaille, Bessie Josephine
Cox, Harriet Agnes	Roche, Annie Josephine Frances
Cullen, Jane Agnes	Sheehan, Katherine Mildred
Curtin, Norah Josephine	Trull, Ella
Dowd, Mabel Mildred	

EVENING DRAWING SCHOOL.

Term of 1903-1904.

CLASSES	Teachers at Opening of Term	Teachers at Close of Term	WHOLE NUMBER OF TIME BOOKS			AVERAGE NUMBER BELONGING			AVERAGE ATTENDANCE			Per cent. of Attendance
			Males	Females	Total	Males	Females	Total	Males	Females	Total	
Architectural	4	3	45		45	34		34	23		23	68
Machine	11	9	153		153	113		113	84		84	75
deling.....	4	3	128	39	167	65	24	89	54	19	73	78
Free Hand ..	5	4	84	52	136	34	38	72	25	29	54	75
Practical Design	2	1	6	12	18	4	6	10	3	5	8	80
Totals	26	20	416	103	519	250	68	318	189	53	242	75

ENFORCEMENT OF SCHOOL AND LABOR LAWS

The city employs four truant officers of whom one, Mr. Sturtevant, acts as supply agent for the school department. Two others, Messrs. Kelly and Roussin, are furnished with a horse and carriage, and are expected to visit each school in the city twice each week. To these schools they take supplies when any are to be sent, and at each they obtain from teachers the names of absentees or truants. These are looked for, and as far as possible returned to school at once. Their regular route takes them to all schools in the first two days of the week, and the same visitation is repeated in the last two, Wednesday being devoted to special cases, or investigations for which there was not time in other days. The fourth officer, Mr. Thornton, patrols the center of the city, and looks after newsboys and others unlawfully out of school. He also looks after special cases in all parts of the city; takes in charge the incorrigibles who do not prove amenable to the influences of the other officers, and prosecutes all cases in court. During the part of the year in which the evening schools are in session he looks up absentees from them, and does a large part of the work of examining applicants for exemptions from evening school on the claim of ability to read and write in English. The work of giving work certificates to those who have employment tickets is shared by all, though the most of it is done by Mr. Kelly and Mr. Roussin. For all there are, too, a thousand and one details to be attended to each week which it is impossible to catalog, and the whole is done with a regularity and effectiveness which is worthy of much commendation. No city of which I know does more, and few do as much.

Mr. Sturtevant orders, receipts for, and disburses all supplies, examines all bills and prepares them for presentation to the committee on accounts, keeps all books and accounts, and in

general acts as the agent of the school committee in a large part of its business relations. He has installed a new and very excellent system of bookkeeping by which almost any detail of the school department business can be seen at a glance, and altogether does, and does admirably well, the work for which the agent of the school committee in Cambridge is paid \$2400.

The report of the truant commissioners follows my own, and to it attention is called for detailed statement of work done.

In conclusion I have again to thank the school committee for continued confidence and support. I desire, too, to bear testimony to the ability and fidelity of the teachers of the city and of all with whom I have been associated in the work of the school department; and for many courtesies and much kindly consideration which has been shown me by all I desire to return more than formal thanks.

Respectfully submitted,

ARTHUR K. WHITCOMB,

Superintendent of Schools.

REPORT OF THE TRUANT COMMISSIONERS FOR THE YEAR 1904.

	Absentees	Truants	Working without certificates	Wandering about the streets	New scholars	Juvenile offenders	Violating the rules of school	Total number cases investigated.	Arrested	Sent to the Middlesex County Truant School	Placed on probation	Prosecution of parents	Visited second time	Visited third time	Working certificates issued—(14 to 16 yrs. of age)	Working certificates approved—over 16 years of age
January.....	147	33	0	21	3	15	0	180	1	0	1	0	20	12	123	25
February.....	168	26	0	39	3	28	0	194	5	5	0	0	32	19	117	35
March	133	53	0	32	2	48	0	186	4	2	2	0	38	17	105	42
April.....	185	30	0	31	3	42	0	215	5	4	1	0	39	16	105	28
May	232	88	0	41	2	20	0	320	10	9	1	0	30	12	107	15
June.....	47	4	0	8	0	13	0	51	1	1	0	0	4	1	217	29
July															301	43
August.....															129	21
September.....	44	13	0	12	6	7	0	157	0	0	0	0	15	10	105	20
October	72	48	0	9	5	9	0	120	6	4	2	0	20	8	117	25
November	173	47	0	19	7	12	0	220	6	4	2	0	23	12	125	18
December	153	19	0	37	0	11	0	172	4	4	0	0	47	23	142	25
Totals.....	1354	361	0	249	31	205	0	1815	42	33	9	0	268	130	1693	326

Number of cases of contagious diseases reported to the School Department for the year ending December 31, 1904.

Diphtheria	160	Scarlet Fever	84
Measles	148	Membraneous Group	4
		Typhoid Fever	3

COURSES OF STUDY

Time Table, in Minutes per Week for the Primary
and Grammar Schools

	1st Year	2d Year	3d Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year
Reading.....	755	590	520	300	220	200	160	150	150
Arithmetic	150	210	240	250	280	280	280	280	180
Algebra									120
Grammar							130	150	170
Comp. and Lang.		75	75	150	150	200	100	100	100
Geography			30	180	180	180	170	150	150
History	20	20	30	40	60	60	140	150	150
Spelling	60	90	90	100	100	100	100	100	90
Writing	60	60	60	60	60	60	60	60	60
Drawing	60	60	60	60	60	60	60	60	60
Music	60	60	60	60	60	60	60	60	60
Nature Study.....	30	30	30	60	60	30	30	30	30
Physiology	25	25	25		30	30	30	30	
Sewing.....				60	60	60			
*Manners, Morals.....	25	25	25	25	25	25	25	25	25
Physical Culture.....	30	30	30	30	30	30	30	30	30
‡Recesses.....	200	200	200	100	100	100	100	100	100
†Opening Exercises.....	25	25	25	25	25	25	25	25	25
Totals.....	1500	1500	1500	1500	1500	1500	1500	1500	1500

* Required by State Law; time fixed at five minutes each day by vote of the School Committee.

† See Sec. 21, Chap. III, of the Rules of the School Committee.

‡ See Sec. 22, Chap. III, of the Rules. If for any reason a recess is shortened or omitted the time for the same should be given to physical exercises, and the Rules forbid that the hours for closing school which have been prescribed by the School Committee should be changed.

Book-keeping may receive one-half the time assigned to penmanship in the ninth year.

The above table is intended as an approximate estimate of the relative importance of the different studies, and teachers are at liberty to vary the time for each study within such reasonable limits as circumstances may require.

FIRST YEAR.

FIRST HALF.

READING. — Teach at first by the sentence or word method or by a combination of the two, beginning with script or print letters on the blackboard. As soon as a few words are learned use phonic analysis to secure distinct articulation and assist in the recognition of new words. On the subject of phonetics consult Ward's "Manual of Instruction," or Gordon's "Comprehensive Method of Teaching Reading."

WRITING. — Short sentences from blackboard copy, or from copy written by the teacher. Make sure that no pupil acquires the filthy habit of putting his pencil in his mouth.

LANGUAGE. — Children should be led to talk freely about things with which they are familiar and to reproduce short stories told them by the teacher. Memory gems, brief maxims, and short selections of poetry should be learned and recited in this and all succeeding grades. History and literature in the form of short stories should have some place from the first, care being taken to have such stories very simple as well as short.

ARITHMETIC. — Numbers objectively from one to five inclusive.

PHYSIOLOGY. — Oral lessons, teaching the names and uses of the external parts of the body, and the simplest rules of health. Teach the effect of the use of alcoholic stimulants and narcotics, as required by the laws of the state.

MANNERS AND MORALS. — As required by the Statutes of the Commonwealth and printed on page 26 of the Rules of the School Committee in this and all succeeding grades. Mrs. Dewey's "How to Teach Manners," or Miss Wiggin's "Lessons on Manners," may serve as a manual.

NATURE STUDY, MUSIC AND DRAWING. — Throughout the course as directed by the supervisor of each of these branches.

SECOND HALF.

READING. — Primers or First Readers of any of the dozen or more authorized series. Continue phonics with much drill on phonograms and their blending into words. See that every sentence is spoken as a whole. In this, as in all grades, the aim is to secure comprehension of thought, natural expression, distinct articulation, correct pronunciation and ready utterance.

WRITING. — Sentences from the blackboard, chart, and teacher's copy. The teaching of spelling should be included in the same exercise. See Ward's Manual, page 29. If all the letters of the alphabet have not been learned by the pupil by the end of the year, unconsciously, give a little special instruction to accomplish this object.

LANGUAGE. — Conversational lessons and story telling with reproduction by pupils, as in the first half. History and literature continued. Whenever possible make stories more interesting by showing objects and pictures. Begin writing short sentences and teach the capital at the beginning of the sentence, the capital I and the period and interrogation mark.

ARITHMETIC. — Numbers, oral and written, to ten inclusive. Use objects at first, but discard them as soon as pupils can do without them. Arabic and Roman notation to ten. Teach and use the signs $+$, $-$, \times , \div , $=$. Teach objectively the fractions $\frac{1}{2}$, $\frac{1}{4}$; coins from one cent to 10 cents, pint, quart, inch.

PHYSIOLOGY. — As in the first half. In connection with names and uses teach the proper care of the hair, teeth, nails, etc. Show importance of cleanliness, exercise, proper clothing, good food, pure air, etc., in this and succeeding grades.

SECOND YEAR.

FIRST HALF.

READING. — The first half of second readers with phonetic drill as before. The ideal in this and all succeeding grades of the primary course is to have thoughts given as wholes with no hesitating over or at the separate words. To enable pupils to do this all new and difficult words should be pronounced and their meaning explained before oral reading is begun. Then, by questioning, make sure that the pupil fully understands what he has seen in print, and allow him to read, orally, only when he is ready to do so without halt or break.

WRITING. — Sentences and words as in the first year, and from dictation. If any pupils have a habit of putting pencils in mouths, consider it an important duty to break it up. Use capitals, the period and the question mark. As before the same exercise should teach spelling. Oral spelling may also be practised at the option of the teacher.

LANGUAGE. — Teach the use of good English by illustration in readings and story telling, using for this purpose selections simple enough to be suited to the children and yet such as are in good literary form, and give much practice in very simple reproductions, both oral and written. The literature best adapted to this grade is that of fairy tales and folk lore stories, and the history is that of mythology and legend. Local history should receive attention, and such stories as those of Columbus, the Pilgrims, Washington, etc., are appropriate. Suit history to holidays, as "The First Thanksgiving" to November, etc.

ARITHMETIC. — Numbers, oral and written, in separations, combinations and relations, to twenty. Objects may be used if necessary, but ought not to be greatly needed. Simple operations in small fractions and in denominate numbers also continued.

PHYSIOLOGY. — The senses ; the eye and sight ; the ear and hearing. Teach only the most general features, any thorough study of the anatomy of the eye or ear being wholly out of place. Temperance teaching as before.

SECOND HALF.

READING. — Second readers completed. Object and method as before.

WRITING. — On paper, from blackboard copy, from dictation, and from print as found in the reading book.

SPELLING. — Selected words, mainly from reading lessons, copied by pupils, either from the book or from dictation, or spelled orally, or both. Teach the spelling also of objects like articles of food or clothing with which children are familiar and in which they are interested.

LANGUAGE. — As in the first half. Oral and written exercises. Continue to give attention to capitals and the most common marks of punctuation. History and literature as in the first half.

ARITHMETIC. — Numbers, oral and written, to fifty, with drill as in the first half: Roman notation to fifty. Coins and dollar sign; pint, quart, gallon; pint, quart, peck, bushel; inch, foot, yard; hour, day, week, month, year, dozen. Fractions, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$.

PHYSIOLOGY. — The senses continued ; the nose and smell ; the tongue and taste ; touch. Show the use and value of all the senses, and the ill effects of abuse, including under the latter topic the effects of alcohol and tobacco. Be careful not to lessen influence by overstatements.

THIRD YEAR.

FIRST HALF.

READING.—The first half of advanced second readers, and of easy third readers. The habit of reproducing that which has been read, usually orally but sometimes in writing, becomes in this and succeeding grades a matter of the greatest importance, and every reading lesson should have in connection with it some work of this kind.

WRITING.—On paper with pen or pencil, and in the writing book with pen. In all written work in language, nature study, etc., insist on order, neatness, and the very best penmanship of which the pupil is capable. Allow no pupil to use a pencil who puts it in his mouth ; such pupils, if any there are, should be required to do all written work with pen and ink.

SPELLING.—Words and sentences copied from books or from the blackboard, and afterward written from dictation. New words in the reading lesson spelled orally, and afterward written in sentences. Give much drill on familiar words which are often misspelled.

LANGUAGE.—Oral and written exercises. Review, continue and extend all work of previous grades. Teach different forms of sentences ; the use of is, are ; was, were ; did, done ; saw, seen, etc. ; the correct use in the sentence of some synonyms as big, large ; like, love, etc. ; and a few homonyms, as fore, four ; write, right ; no, know, etc. ; the use of capitals with proper names, some abbreviations, and such punctuation as is needed in the written work done by pupils.

The work in history and literature may be extended somewhat, both in use and in subjects. A little written reproduction may be added to the oral, and stories for literary culture may

include myths, fables and folk lore, such as are given by Hawthorne in his "Wonder Book," or Scudder in his collection of folk lore tales. In myths, choose those of natural objects, as "Ulysses and the Bag of Winds," etc. History may include more stories of noted men and events. The history of Lowell is worthy of much attention, especially the story of its founding. Note use of Indian names, as Wamesit, Merrimack, Pawtucket, etc. Use pictures when possible. History readers or story books will be furnished as asked for.

ARITHMETIC.—Numbers, oral and written, Arabic and Roman notation to one hundred. Emphasize the addition of numbers in columns, and the multiplication table.

GEOGRAPHY.—Teach points of compass with application to many objects in and about the school house. At appropriate times give observation lessons on natural phenomena, as clouds, frost, snow, etc. Note temperature as warm, hot, or cold, and the weather as sunny, cloudy or rainy. Keep weather records. For further suggestions consult Frye's Primary Geography.

PHYSIOLOGY.—The bones, teeth, skin and muscles. Teach few names, and only the most general features, giving special attention to the laws of health. Temperance teaching continued.

SECOND HALF.

READING.—Advanced second readers completed, and supplementary readers. Continue phonics and enunciation exercises.

WRITING.—Copy book No. 2 with pen, and paper with pen or pencil, as before.

SPELLING.—As in first half.

LANGUAGE.—At the end of this year pupils should be able to write simple statements legibly and in correct form, and should

have such knowledge of punctuation marks, capital letters and common abbreviations as is needed in such writing. They should have had some practice in the simplest form of letter writing. The work to be done is indicated in the foregoing statement.

ARITHMETIC.—Numbers to one hundred. Arabic and Roman notation to one thousand. Review and extend the work of all previous grades. To be ready for promotion to a grammar school, children should be able to add columns of figures to a total of 100 rapidly and accurately ; to know the multiplication table to ten times ten so as to be able to give products instantly ; to use all the common tables of denominate numbers in simple reductions ; and to add, multiply, subtract and divide small fractions like $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{1}{8}$.

GEOGRAPHY.—Have children read Carroll's *Around the World, First Book*, and add such comment and instruction as shall give to the subject the highest attainable degree of interest and value.

PHYSIOLOGY.—Circulation, respiration and digestion. As before avoid teaching too much, and make the instruction as practical as possible by relating each fact learned to some simple and easily followed law of health.

GRAMMAR SCHOOLS.

FOURTH YEAR.

READING.—Authorized third readers and supplementary reading of the same grade. Correlate history and geography with reading by the use of stories of heroes either real or mythological, and by books of travel or accounts of strange countries and unique productions in this and in all higher grades.

SPELLING.—Words in common use, orally and in writing. Require definitions or the use of words in sentences to make sure that meanings are understood. Make every written exercise a lesson in spelling. Select words for practice from all text books used, and for supplementary drill use authorized text books as follows: Worcester, first half to page 29; second half to page 47; Reed, first half to page 24; second half to page 38; Morse, first half to page 10; second half to page 30.

ARITHMETIC.—Numbers to 1000. Daily oral drill in numbers to 100, as in the primary schools. Written work, with numbers usually small enough to be expressed by three figures, in addition, subtraction, multiplication and division, no multiplier or divisor to be larger than 9. Use terms sum, product, multiplier, etc., but do not require definitions. Give problems in dollars and cents, using the dollar sign and decimal point. Continue the drill of the primary school in easy reductions of denominate numbers. Teach the reduction, addition, subtraction, multiplication, and division of the fractions $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{3}$, $\frac{1}{6}$, illustrating all processes by objects, but using the written expression from the first. Second half, continue and extend all work of the first half. Notation and numeration to 1,000,000. Multiplication with multipliers large enough to be expressed by two or three figures; and long division, no divisor larger than 25. Decimals to thousandths in addition and subtraction, and in multiplicands and dividends in multiplication and division.

LANGUAGE.—The expression of thought, orally and in writing, in simple sentences and short stories, with practice in the use of such capital letters, punctuation marks and abbreviations as are necessary to correct writing. Second half, continue work of first half and add the simplest forms of letter writing as outlined in the authorized text book to page 104. Blackboard work strongly recommended.

GEOGRAPHY.—Land and water forms ; making and reading maps ; form and size of the earth, equator, poles, etc. Make the work of the first four months “Home Geography” as far as possible, always using forms that can be seen as a basis for the comprehension of those which are beyond vision. Second half, the surface of the earth in its great natural divisions ; climate ; peoples and races. Continue to relate that which is distant to that which may be directly observed as far as possible.

HISTORY.—As many stories should be read by the pupils, or told or read to them by the teacher, as time will permit, but the number of facts to be required for reproduction should be very few, probably not more than could be written on a page of foolscap, or told by a class in the time of a single recitation. These few, however, should be learned with the utmost exactness and thoroughness ; they should be planned to form the basis of all future study of the history of the United States from Columbus to the end of the nineteenth century ; should include a few dates like 1492, 1776, etc., — a half dozen will do very well, but these few should be so learned as to be recalled as automatically as the child would recall his own name. In the recitation of facts intended to be mastered, no mistakes should be tolerated ; nine-tenths of the teaching, however, should not have the memorizing of facts, names and dates as any part of its object, but should aim to quicken interest, broaden vision, stimulate patriotism and develop character through appreciation of courage, loyalty and virtue as exemplified in the heroes of history. Use pictures, relics, etc., to increase interest as far as possible, and remember that whatever else is accomplished the lesson is a failure which does not leave the class with a desire for further study.

Nature Study, Drawing, and Music as directed by the supervisors of these branches in this and succeeding grades. Sewing under the direction of the special teacher in this and the next two grades.

FIFTH YEAR.

READING.—Fourth readers and supplementary books.

SPELLING.—As in the fourth year, with words for supplementary drill, first half to page 69 in Worcester ; second half to page 93 ; in Morse, first half to page 44 ; second half to page 64 ; Reed, first half to page 56 ; second half to page 79.

ARITHMETIC.—Continue all the work of the previous year. Whatever else is omitted see that oral drill and rapid written work with small numbers are given prominent places on the programme. In written work give many examples and problems with small numbers, rather than a few with large numbers. Long division with divisors of not more than three figures. In addition to constant practice with fractions already learned, teach $\frac{1}{6}$, $\frac{1}{12}$, $\frac{1}{5}$, $\frac{1}{10}$, and continue practice in the use of decimals and denominate numbers. In the use of the authorized text book omit all the examples involving long and tedious operations with large numbers. Second half, continue work of the first half. Teach fractions to and including twenty-fourths. Teach least common multiple when needed as a means of finding the least common denominator of fractions, and factoring and cancellation when needed for practical use. Extend work of previous years in denominate numbers to include all simple reductions.

LANGUAGE.—As in the fourth grade the work is still to get from the pupil the expression of thought in correct language, both oral and written. In this work clearness of thought is of primary importance. The pupil must first have something to say, and then be taught to say it in terse and correct English. Dictation, reproduction, narration work and letter writing are approved methods of securing the result desired. Second half, to work previously done add the study of sentences by name, as declarative, interrogative, etc., with their division into subject and predicate, and begin the study of words and their uses in the sentence to include

nouns, verbs and pronouns to page 210 in the authorized text book. Continue to have pupils do much writing on the blackboard.

GEOGRAPHY.—North America, its surface, peoples and countries ; the United States as a whole, surface, climate, people, products and trade routes, making the work simple, general and elementary as would be suggested by authorized text books. Second half, complete continent study along the same lines and in the same elementary way as before, to page 115 in authorized text book.

HISTORY.—First, review the facts which were taught in the fourth year so thoroughly and constantly that no one of them shall escape. Second, add about as many new facts, dates, etc., as were mastered in the last year, and teach them with the same thoroughness and intensity as was then demanded. Cover the whole period of the history of civilized man in America, selecting the new matter of this year so as to fill out and supplement the brief outline of the previous year, and relate our history to that of the world's whole past as far as such relation is natural and helpful. In teaching a few indispensable things be satisfied with nothing less than perfection, and for the rest and by far the most of the time have pupils read and enjoy the stories which are the life of history, without attempting to burden them with the recollection of all they read. Correlate with Geography, make and use maps, draw, use pictures, make collections, etc.

PHYSIOLOGY.—Book No. 1 of the Union series, as a reader, with such comment and instruction in this and succeeding grades as shall comply with the following law of this state: "Physiology and hygiene, which shall include special instruction as to the effects of alcoholic drinks, stimulants and narcotics on the human system, shall be taught as a regular branch of study to all pupils in schools supported by public money."

SIXTH YEAR.

READING.— Fourth Intermediate and supplementary books.

SPELLING.— As before correlate spelling with every subject taught. Make every written exercise a lesson in spelling, and for supplementary drill use Worcester first half, to page 111 ; second half to page 125 ; Morse, part III to page 73 ; second half to page 82 ; Reed, first, to page 92 ; second, to page 106.

ARITHMETIC.— Continue oral drill and rapid written work with small numbers. Review and extend work in fractions, but do not attempt to master the too difficult problems of the text books. Teach decimals more fully than before, and give many problems involving the use of United States money and the reduction of denominate numbers. Second half, continue all work of first half. Practice in compound numbers should include all common reductions, but should omit addition, subtraction (with the exception of the subtraction of dates), multiplication and division of compound numbers as such, longitude and time, metric equivalents, etc.

LANGUAGE.— Study of words and their uses continued to include all the Parts of Speech. Second half, classes of nouns as common and proper, singular and plural, the changes of form which are necessary to indicate possession, and their uses as subjects or objects of the verb, the distinction of person in pronoun, and the use of predicate adjectives. Teach clauses, and the distinction between simple and complex sentences.

The foregoing is the new work of the year, but it should not be allowed to prevent the giving of the larger part of the pupil's time to a continuation of the more important work of the fourth and fifth years in the correct expression of thought in language both oral and written, with careful attention to paragraphing, spelling, punctuation, capital letters, abbreviations, etc., in the written work. Continue blackboard practice.

GEOGRAPHY.—The groups of states which compose the United States in detail, yet in the same general and elementary way as before. Second half, foreign countries in detail to complete geographic study so far as its elementary phase is concerned.

HISTORY.—Treat the work of the fourth and fifth years in history exactly as the teacher of the fifth year was instructed to treat that of the year preceding her own, and make a few additions in accordance with the plan and in the spirit heretofore suggested.

PHYSIOLOGY.—Book No. 2 of the Union series, as a reading book, with comment and instruction as before.

SEVENTH YEAR.

READING.—Intermediate and supplementary readers.

SPELLING.—Work of the sixth year continued. For supplementary drill use Worcester, first half to page 135; second half to page 145; Morse, first half to page 91; second to page 112; Reed, first to page 118; second to page 128.

ARITHMETIC.—Review constantly the work of all preceding years, but especially the work in fractions and denominate numbers. For advance work take up percentage, with applications to profit and loss, insurance, brokerage, taxes, etc. Second half, to work of first half add interest, simple and compound, with applications to promissory notes and discounts at banks.

GRAMMAR.—“Study of the sentence as a means of expressing thought, with such attention to the parts of speech and their classification and inflection as may be necessary to a clear understanding of the construction of the sentence.” To page 135 in the Mother Tongue, Book II. Three lessons each week.

LANGUAGE.—Letter writing, business forms, social notes, paragraph and sentence study, descriptions, study of selections,

etc., as planned in Miss Arnold's "Outline of a Course of Study in Language," seventh and eighth grades, pages 18, 19 and 20. Two connected periods each week. Some writing on blackboard each day is recommended.

GEOGRAPHY.—A review and extension of the work of the fourth grade, with a larger text book and more scientific treatment; the earth as a whole with its forms of land and water, and the people, plants and animals which live upon it. Difficult explanations of change of seasons, etc.; sections 19, 20, 21 in text book, may be omitted in this grade and taken up in the ninth at the option of grammar masters. Second half, mines and quarries; highways of trade; the United States in general; view of its people, soil and climate.

HISTORY.—Discovery, exploration and conquest of America to date of first permanent English settlement in greater detail than before, but with constant use of the outline already learned, using the order of the authorized text books. Relate the history of this country as far as possible to the European, and especially to the English history which preceded it. Second half, the settlement of North America to the beginning of the French and Indian War.

PHYSIOLOGY.—First half, food and digestion; second half, the blood, blood vessels and circulation. General facts relating to laws of health are to be emphasized rather than minor details of structure. Teach effects of the use of alcohol as required by law.

EIGHTH YEAR.

READING.—Fifth readers and supplementary books.

SPELLING.—Relate spelling to all other subjects taught as in previous years, and use the authorized text books for additional drill. Worcester, first half to page 155; second half to page 163; Morse, first half to page 120; second half to page 128. Reed, first half to page 140; second half to page 153.

ARITHMETIC.—Review the work of all previous years, with further applications of the principles of percentage and interest to stocks and bonds, exchange, etc., and add partnership, ratio and proportion. Of subjects treated in the authorized text book omit equation of payments, problems in exchange involving interest-bearing drafts, and the more complicated problems in partnership. Second half, involution, evolution, to include second and third roots, and mensuration of plane surfaces to and including circles.

GRAMMAR.—Sentence study continued, with “a detailed study of the parts of speech, their classification and inflection, and the details of analysis and construction which are necessarily associated with such study.” Three periods weekly. Text book to page 267.

LANGUAGE.—Continuation and extension of the work of Grade VII. For details consult Miss Arnold’s outline as before.

GEOGRAPHY.—Study of the United States as a whole completed, and study of separate states in groups taken up far enough to include all the eastern, southern and central states. Second half, study of the separate states and detached possessions of the United States completed, and a similar study made of the other countries of North America, South America and Europe.

HISTORY.—The conquest of Canada and the development of the English colonies in America into the United States to the time of the Treaty of Paris in 1783. Second half, the establishment, growth and history of the Union under the Constitution to the administration of Andrew Jackson, 1829.

PHYSIOLOGY.—The study of the human body as outlined in the authorized text book, Union series, Book 3, to include the respiratory system, the bones, joints and muscles. Second half, study of the subject as outlined in the text book completed.

NATURE STUDY.—Birds, from observation, for recognition, knowledge of the time of arrival and departure of those which are migratory, habits, food, nesting, etc. All pupils ought at the end of the year to know from personal observation a dozen kinds, and some, with proper encouragement and assistance, will know from seventy to eighty.

NINTH YEAR.

READING.—Fifth readers, Masterpieces of American Literature and other supplementary books. Read and study as literature, Irving's *Rip Van Winkle* and Longfellow's *Evangeline*, in the first half, and Whittier's *Snow Bound*, Hawthorne's *Great Stone face*, and Lowell's *Vision of Sir Launfal* in the second.

SPELLING.—As in previous years, with supplementary drill on words found in the last part of Worcester's *Speller* in the first half, and in the whole book in the last half. Morse, first half to page 128; second, complete and review; Reed, finish and review.

ARITHMETIC.—First half a review of fundamental processes with numbers both integral and fractional, factoring, the finding of divisors and multiples, percentage, and so much of geometry as is found in the *Werner Arithmetic*, Book III, to page 150; second half, percentage continued with applications to discounts, interest, stocks, etc., ratio and proportion, powers and roots, denominate numbers, etc., with general review of the whole subject of arithmetic and so much of geometry as is given in the authorized text book to page 256. Metrics at the option of the teacher.

ALGEBRA.—Work in algebra may follow the order of the authorized text book on algebra, or of the arithmetic. In the latter case algebraic fractions may be omitted in the first half of the year, at the option of the teacher, and only so much work is required in the whole year as will be equivalent to the completion of the subject to page 71 in Wentworth's "*First Steps in Algebra*." The

algebra may be taken with the arithmetic or alternated with it, but should not receive more than two-fifths of the time allotted to mathematics in the ninth year.

GRAMMAR.—Sentence analysis with more difficult constructions, and such study of more difficult relations of words in sentences and of phrases and clauses, as shall be necessary to the comprehension and use of the English language.

LANGUAGE.—As planned in Miss Arnold's outline, pages 20, 21 and 22.

GEOGRAPHY.—Asia, Africa and Australia. Omit geographic study in the last half of the year.

HISTORY.—First half, complete the history of the United States to date. Second half, review the whole subject.

BOOKKEEPING.—One-half the time allotted to penmanship may be devoted to bookkeeping.

NATURE STUDY.—Trees from observation. Pupils ought to be able at the end of the year to locate and describe forty varieties which they have seen in or near the city.

HIGH SCHOOL

	Classical	College	Scientific	Modern Language
First Year	*Latin I. *Algebra *English I. *Phys. Geog. <i>hf.</i>	*Latin I. *Algebra. *English I. *Physics <i>hf.</i>	Lat. I or Man. Tr. I. *Algebra. *English I. *Phys. Geog. <i>hf.</i>	*French I. *Algebra. *English I. *Phys. Geog. <i>hf.</i>
Second Year	Latin II or French I. Geometry. Physics. *Hist. and Eng. II.	*Latin II. *Geometry. Gr. I or Fr. I. *Hist. and Eng. II.	Lat. II or Man. Train. II. *Geometry. *French I. *Hist. and Eng. II.	*French II. Geometry *Physics *Hist. and Eng. II
Third Year	Latin III or Fr. II or I. *Hist. and Eng. III. Physiology <i>hf.</i> †Astron. and Geol. Chemistry I. German I. Rev. Alg. and Geom.	*Latin III. *English III <i>hf.</i> *French I. *Coll. Math. Gr. II or Fr. II. German I. *Gk. and R. Hist.	*Coll. French *English III <i>hf.</i> *Coll. Math. *Hist. IV <i>hf.</i> *Coll. Physics or Ger- man I.	*French III. *Hist. and Eng. III. Physiology <i>hf.</i> †Astron. and Geol. German I. Chemistry I. Rev. Alg. and Geom.
Fourth Year	Latin IV. or Fr. II or III. *English IV. History IV. Botany <i>hf.</i> German I or II. Chemistry II.	*Latin IV. *English IV. *Coll. French II. Gr. III. or Fr. III. German I or II. Geom. and Trig. Coll. Physics.	French III. Ger. I or Coll. Phys. *English IV. *Geom. and Trig. Chemistry I.	German I or II. *English IV. History IV. Chemistry I or II. Botany <i>hf.</i>

*Prescribed.

†Astronomy and Geology may be taken the fourth year instead of the third year.

Manual Training	Commercial	Textile School	Five Years College All Studies Prescribed
*Man. Train. I. *Algebra. *English I. *Phys. Geog. <i>hf.</i>	*Bookkeeping I. *Alg. and Ment. Arith. *English I. *Com. Geog. <i>hf.</i>	Latin I or French I or Man. Train. I. *Algebra. *English I. *Phys. Geog. <i>hf.</i>	FIRST YEAR Latin I. Algebra. English I. Physics <i>hf.</i>
*Man. Train. II. Geometry. Physics. French I. *Hist. and Eng. II.	*Bookkeeping II. *Com. Law and Arith. French I. Geometry. Physics. *Hist. and Eng. II. (Select 4)	Latin II or French II or Man. Train. II. *Geometry. *Physics. *Hist. and Eng. II.	SECOND YEAR. Latin II. Greek. Hist. and Eng. II. Geometry.
*Man. Train. III. *Hist. and Eng. III. Physiology <i>hf.</i> French II or I. †Astron. or Geol. German I. Chemistry I.	*Bookkeeping III. *Stenog. and Type- writing I. *Hist. and Eng. III. Physiology <i>hf.</i> French II or I. German I. Chemistry I.	*Chemistry I. *Coll. Math. French III or I, or German I. *English III <i>hf.</i>	THIRD YEAR. Latin III. Greek II. English III <i>hf.</i> French I.
*Man. Train. IV. French II or III. German I or II. *English IV. Geom. and Trig. Chem. II or Chem. I. History IV.	*Stenography II. *Typewriting II <i>hf.</i> French II or III. *English IV. History IV. German I or II. Chemistry II.	*English IV. *Coll. Physics. Fr. II or German I or II. Chemistry II. History IV. *Geom. and Trig.	FOURTH YEAR. Review Latin III. Review Greek II. English IV. Gr. and R. Hist. Coll. Math.
			FIFTH YEAR. Latin IV. Greek III. Coll. Physics. Coll. French II.

*Prescribed.

†Astronomy and Geology may be taken the fourth year instead of the third year.

NOTES ON HIGH SCHOOL COURSES OF STUDY

Pupils who intend to enter the High School are requested to consider the preceding courses of study with great care, as changes from one course to another during the year are impracticable, and a change after the first year may cause the pupil to lose time. The teachers of the school will gladly give parents and pupils any assistance and advice possible in their selection of studies.

In each course, certain studies are prescribed, but the pupils may make up the remainder of the required studies from a wide range of elective subjects. The prescribed studies in each course are starred. Satisfactory completion of three years' work in any course will entitle the pupil to a three years' diploma. Satisfactory completion of four years' work in any course will entitle the pupil to a four years' diploma. Those who satisfactorily complete the five years' College course will be entitled to a five years' diploma.

The Classical Course is intended for students who do not intend to enter College, but who desire the best general education that the High School furnishes.

The College Preparatory Course will fit students for any American College and may be completed in four or five years. It is necessarily difficult. The student is advised to take five years in preparation for Radcliffe or Harvard College.

The High School has been approved by the New England College Entrance Certificate Board and the school certificate of preparation is accepted by all the institutions represented on this Board which includes Amherst College, Boston University,

Bowdoin College, Brown University, Dartmouth College, Mount Holyoke College, Smith College, Tufts College, University of Maine, Wellesley College, and Wesleyan University. Under the certificate method of admission to college the school is held responsible for the grade of work done by its students in College. Experience has shown that unless students are able to attain easily grade B (80-90%) in their High School work, they will be unable to do the quality of work demanded by the above named colleges. Consequently, the school certificate must be refused those pupils who are unable to obtain a scholarship standing of more than 80%. Students who fail to obtain the school certificate, may, however, take the admission examinations. The following, taken from correspondence with one of the colleges, is quoted to show the general attitude of the colleges in regard to the use of the certificate method of admission.

“Some of our best schools are protecting their own certificates by demanding a higher standard of excellence for certification to college than for graduation, and requiring all doubtful men to submit to the test of a college entrance examination; we recommend this policy for all schools. It must always be borne in mind that the certificate system is not designed as a means for making it easier for a poor scholar to enter college, but simply for placing the decision of fitness upon the men who best know his attainments; the protection of the integrity of the certificate is of equal importance to school and college. The College is keeping a permanent record of the results obtained from each school, as determined by the work of their men during the first semester of Freshman year.”

The Scientific Course will prepare students for the Institute of Technology, the Worcester Polytechnic, the Chandler Scientific and other technical schools.

The Modern Language Course is similar to the Classical Course, but requires a modern foreign language instead of Latin.

In educational value it is practically equivalent to the Classical Course.

The Manual Training Course offers a combination of the ordinary High School studies with practical work in the use of tools and machines, together with a complete course in mechanical drawing and technical drafting, and allows the student to specialize somewhat in mechanical work. It also furnishes an excellent general training.

NOTE. — Candidates for the Massachusetts Institute of Technology and Worcester Polytechnic School should not take this course for more than two years, as manual training counts only as an elective in the admission requirements.

The Commercial Course is designed for those who expect to engage in business pursuits upon leaving the High School, and has been arranged so that the pupil will receive the same amount of mental training and therefore will acquire as much mental power as in any other course. It is not less educational than other courses and must not be selected with the conviction that it is "easy."

Subjects marked $\frac{1}{2}$ have a value equivalent to only one-half of those without such mark, and such subjects will come on alternate days.

There will be no formal examinations in the middle and at the close of the year, but the standing of the pupil will be made up from his daily recitations and frequent tests. This standing is indicated by letters on the monthly reports, which are sent home for parents' inspection. *A* shall indicate a mark from 90 to 100 per cent; *B*, a mark from 80 to 90 per cent; *C*, a mark from 65 to 80 per cent; *D*, between 50 and 65 per cent; and *E*, any mark below 50 per cent.

A standing of *C* for the year must be attained in order to pass a given subject. A standing of *B* is required for permission to take the college preliminary examinations. A final mark of *D* or *E* means failure. If the failure is in a required subject, the subject must be repeated; if in an elective, an equivalent subject may be

substituted. Pupils who have completed nine, five or two full subjects will be classed respectively as fourth year, third year or second year students. Those who have completed a less number for each year will be classed respectively as third year, second year and first year students.

In preparation for the Normal School, select either the Classical Course or the Modern Language Course, preferably the former. The candidate should select four studies for the second year and should be prepared in Mathematics and Science for the preliminary examinations in June of the third year. For Medical Schools and some of the smaller colleges, select the Classical Course. For other colleges select the College Course. In this course French and German may be substituted for Greek in preparation for some colleges. For the Lawrence Scientific School, select the College Course, or the College Course with Manual Training in place of Physics.

By an examination of the courses of study, it will be seen that for a diploma a minimum number of subjects in each year of each course is required. But in preparing for the higher institutions of learning more than the minimum number of subjects, depending on the requirements of the college, will need to be taken. At the beginning of his second year, the pupil, therefore, should decide upon the college or school for which he wishes to prepare, and should select his subjects to fit the requirements. He should make himself familiar with the requirements and also obtain the advice of his teachers in selecting his subjects. Candidates for Smith, Wellesley and Mt. Holyoke should send applications for admission as early as their third year.

Classes will not be formed in electives for less than twenty pupils in the first or second year, fifteen in the third year, and twelve in the fourth year.

Unprepared work in Music, Calisthenics, Elocution, Ethics, and Military Drill, is required.

Calisthenics and Military Drill are optional the fourth year. Elocution is prescribed throughout the course for all pupils except those who are pursuing four full studies. In this connection Bookkeeping is considered a half study.

Three years' work in Calisthenics and Elocution, or Military Drill and Elocution, provided the attendance at these exercises is 90 per cent of the possible attendance, will be considered as equivalent to a half subject for a diploma. Four years' work will be considered equivalent to a full subject.

Since Bookkeeping requires no preparation outside the classroom, when taken as a part of any other course than the Commercial Course, it will be counted only as a half subject for a diploma.

MINIMUM NUMBER OF SUBJECTS REQUIRED FOR A DIPLOMA.

First Year.—Three and one-half subjects in all courses.

Second Year.—Three subjects in all courses except the Commercial Course, in which four must be taken.

Third Year.—Three and one-half subjects in all courses.

Fourth Year.—Three and one-half subjects in all courses.

ROLL OF TEACHERS

Giving Name, Grade, Residence, Date of Election and Salary.

HIGH SCHOOL.

Kirk and Anne Streets.

CYRUS W. IRISH, Headmaster	308 Nesmith street	- -	1885	\$3000
FRANK B. SHERBURNE, Sub Master,	58 Dover street, <i>Greek</i>			
<i>and Latin</i>	- - - - -	- -	1883	2200
MARY A. WEBSTER, First Assistant,	45 Varney street,			
<i>English and Mathematics</i>	- - - - -	- -	1859	1000
CHARLOTTE E. DRAPER,	47 Belmont avenue, <i>Cæsar,</i>			
<i>Astronomy, Geology and Geometry</i>	- - - - -	- -	1870	1000
ALICE J. CHASE,	262 Fairmount street, <i>History and English</i>		1877	1000
SUSIE L. D. WATSON,	390 East Merrimack street, <i>United</i>			
<i>States History and Mathematics</i>	- - - - -	- -	1885	900
ADELAIDE BAKER,	136 Myrtle street, <i>French</i>	- -	1885	900
JENNIE L. ALLEN,	947 Middlesex street, <i>Physics and</i>			
<i>Physiology</i>	- - - - -	- -	1885	900
EMMA L. BRADLEY,	485 Westford street, <i>French</i>	- -	1890	900
GERTRUDE A. RODLIFF,	Chelmsford Centre, Mass., <i>History</i>			
<i>and English</i>	- - - - -	- -	1890	900
MARIETTA CASSIDY,	4 Fifth Avenue, <i>Latin and Algebra</i>	-	1890	900
GEORGIANA F. VINTON,	52 Fourth Street, <i>History, English</i>			
<i>and Algebra</i>	- - - - -	- -	1872	1000
GRACE M. GOODHUE,	120 School street, <i>Ancient History</i>			
<i>and Latin</i>	- - - - -	- -	1893	900
BESSIE E. HUNTOON,	64 Warwick street, <i>French and</i>			
<i>Physiology</i>	- - - - -	- -	1894	900
GRACE WARD,	279 Chelmsford street, <i>Physics and Physical</i>			
<i>Geography</i>	- - - - -	- -	1895	800
MARY E. O'CONNOR,	60 Varnum street, <i>History and English</i>		1896	800

CARL D. BURTT, 93 Fort Hill avenue, <i>Greek and German</i> -	1895	1800
FREDERICK R. WOODWARD, 168 Sixth street, <i>Mathematics</i> -	1895	1800
HELEN M. LAMBERT, 283 Pawtucket street, <i>Chemistry</i> -	1897	800
THOS. F. FISHER, 305 East Merrimack street, <i>Manual Training</i> - - - - -	1898	1500
ANNE M. DAY, 278 East Merrimack street, <i>History and English</i> - - - - -	1899	800
HELEN BUTTRICK, 307 Wilder street, <i>Botany and English</i> -	1899	800
EDWARD S. COLTON, JR., Swan Bldg., <i>Commercial Law and Bookkeeping</i> - - - - -	1900	1500
MARY G. STEVENS, East Merrimack street, <i>Tewksbury, English and History</i> - - - - -	1900	800
MARY H. KILLPARTRICK, 609 Stevens street, <i>English and Commercial Geography</i> - - - - -	1901	800
NATHANIEL H. ATKINS, 88 Warwick street, <i>Commercial Law and Bookkeeping</i> - - - - -	1901	1200
ADELAIDE E. SWEETSIR, 276 Westford street, <i>English and Algebra</i> - - - - -	1902	800
MARGARET V. SPEAR, 576 Westford street, <i>French and English</i> - - - - -	1902	800
ELSIE RYDER, 90 Chestnut street, <i>Arithmetic and Commercial Law</i> - - - - -	1902	800
ERNEST M. HUNT, 90 Chestnut street, <i>Shorthand and Typewriting</i> - - - - -	1902	1200
ETHEL W. WHITCOMB, 2 Belmont street, <i>Shorthand and Typewriting</i> - - - - -	1903	700
MIRION H. MILNER, 102 Chestnut street, <i>Physical Culture and Elocution</i> - - - - -	1902	800
EDWIN M. ROBERTS, 74 Stevens street, <i>Manual Training</i> -	1904	800
ETHEL M. EVERETT, temp., 12 Belmont street - - -		
ELIZABETH H. MURPHY, temp., 159 Third avenue - -		
ALICE RICHARDSON, temp., 213 Branch street. - - -		
HAROLD R. WADE, temp., 278 East Merrimack street - -		
COLBY T. KITTREDGE, 14 Ralph street, <i>Military Instructor</i> -	1901	500
KATHARINE H. COGGESHALL, 108 Appleton street, <i>Secretary</i>	1899	500

BARTLETT GRAMMAR SCHOOL.

Wannalancit Street.

CYRUS A. DURGIN, Master, 117 Bowers street	- - -	1891	\$2000
BELLE A. PRESCOTT, 9th year, 68 Mt. Washington street	-	1878	600
CHARLOTTE M. MURKLAND, 8th year, 117 Bowers street	.	1898	600
BLANCHE A. CHENEY, 8th year, 34 Arlington street	- -	1896	600
AMY L. TUCKE, 7th year, 111 Butterfield street	- - -	1880	600
FRANCES CLARK, 7th year, Chelmsford Centre	- - -	1899	600
BELLE F. BATCHELDER, 6th year, 66 Arlington street	- -	1883	600
CARRIE E. ERSKINE, 6th year, 138 Mt. Vernon street	- -	1893	600
M. IDA HOWE, 5th year, 84 Methuen street	- - -	1873	600
MARIA W. ROBERTS, 5th year, 414 Andover street	- -	1875	600
ALICE D. SUNBURY, 4th year, 142 Wilder street	- - -	1899	600
MARY E. WALSH, 4th year, 9 Corner street	- - -	1897	600
MARY G. QUINN, temp., 6th year, 28 Chapel street	- -		

BARTLETT PRIMARY SCHOOL.

BRIDGET K. SMITH, 3d year, 117 Stackpole street	- -	1904	\$ 450
SARAH E. AMES, 2d year, 119 Hall street	- - -	1902	600
ALICE G. BARRETT, 1st year, 93 Mt. Vernon street	- -	1901	600
ESSIE E. ROCHE, 1st year, 1835 Middlesex street	- - -	1903	600

MORRILL SCHOOL.

Common and Adams Street.

NELLIE M. BROWN, Principal, 3d year, 426 Fletcher street	-	1865	\$ 650
ANNIE M. COURTNEY, 2d year, 196 Pawtucket street	- -	1887	600
AGNES T. COURTNEY, 1st year, 11 Marsh street	- - -	1891	600

CROSS STREET SCHOOL.

Cross Street between Fletcher and Mt. Vernon Streets.

SARAH E. SCALES, Principal, 3d year, 28 Ralph street	- -	1866	\$ 650
ELLEN M. WHITE, 2d year, 1057 Middlesex street	- -	1863	600
A. GERTRUDE STILES, 1st and 2d years, 72 Varney street	-	1895	600
KATHERINE KELLY, 1st year, 98 School street	- - -	1893	600

BUTLER GRAMMAR SCHOOL.

Gorham Street.

CORNELIUS F. CALLAHAN, Master, 410 Walker street	-	-	1885	\$2000
NELLIE F. MURPHY, 9th year, 85 Sherman street	-	-	1878	600
HELEN E. GOOKIN, 9th year, Wamesit	-	-	1897	600
MARY I. DONLAN 8th year, 455 High street	-	-	1890	600
MARY E. LANE, 8th year, Billerica	-	-	1894	600
DELIA T. BRADY, 7th year, 183 Chapel street	-	-	1883	600
KATE E. KELLEY, 7th year, 129 Moore street	-	-	1883	600
AGNES M. FOLEY, 6th year, 37 Newhall street	-	-	1887	600
SADIE E. TULLY, 6th year, 105 Westford street	-	-	1897	600
ANNIE J. DEVINE, 6th year, 110 Carlisle street	-	-	1901	600
MARY L. CROWLEY, 5th year, 52 Mt. Washington street	-	-	1902	600
ALICE C. O'BRIEN, 5th year, 22 William street	-	-	1897	600
MARY L. MCSORLEY, 5th year 34 Nesmith street	-	-	1879	600
ETTA G. BURNS, 5th year, 154 Perry street	-	-	1901	600
MARGUERITE J. CRONIN, 5th year, 228 Plain street	-	-	1900	600
KATHERINE M. USHER, 4th year, 465 Parker street	-	-	1895	600
JOSIE V. HOAR, 4th year, 87 Mt. Washington street	-	-	1901	600
MARGUERITE G. HYDE, 4th year, 5 Floyd street	-	-	1902	600
KATHERINE M. JANTZEN, 4th year, 3 Olive street	-	-	1902	600

LYON STREET SCHOOL.

Corner Lyon and Central streets.

ALICE T. LEE, Principal, 3d year, 12 South Walker street	-	1878	\$ 650
ANNABEL COSTELLO, 2d year, 293 Nesmith street	-	1888	600
MARY J. MCCARRY, 1st year, 536 Fletcher street	-	1881	600
NELLIE A. HUNT, 1st year, 68 Elm street	-	1884	600
ELIZABETH B. DAME, 1st year, 178 First street	-	1902	600

CARTER STREET SCHOOL.

Carter Street

ISABELLA T. VINALL, Principal, 3d year, 1 Glidden avenue	-	1873	\$ 650
MARGARET J. CONNORS, 2d year, 48 Walnut street	-	1894	600

CATHERINE F. BRADY, 2d year, 173 Chapel Street	-	-	1897	600
MARY V. JOHNSON, 1st year, 23 Lombard street	-	-	1897	600
DELIA C. MALONEY, 1st year, 70 Elm street	-	-	1901	600

AGAWAM STREET SCHOOL.

Agawam and Barrington Streets.

MARY A. FAY, Principal, 3d year, 115 Stackpole street	-	1889	\$ 650
SUSAN G. NEILON, 2d year, 135 Andrews street	-	1895	600
EVA MAGOON, 1st year, 70 Church street	-	1904	500

LONDON STREET SCHOOL.

Corner of London and West Streets.

ELIZABETH R. MAGUIRE, Principal, 3d year, 60 Fort Hill ave.	1884	\$ 650
ALICE A. MASTERSON, 1st and 2d years, 57 Christian street	1892	600
MARY F. HILL, 1st and 2d years, 94 Midland street	1887	600
MARY E. CROWLEY, 1st year, temp., 436 Lincoln street	-	

WEED STREET SCHOOL.

Corner of Weed and Gorham Streets.

MARY B. MCGOVERN, Principal, 3d year, 204 Moore street	1886	\$ 650
LILLA M. MCEVOY, 2d year, 181 Moore street	1893	600
MARY F. DEVINE, 1st year, 1527 Gorham street, East Chelmsford	1902	600

EDSON GRAMMAR SCHOOL.

Highland Street

CALVIN W. BURBANK, Master, 130 Bowers street	1872	\$2000
FRANCES M. WEBSTER, 9th year, 45 Varney street	1873	600
ROSALIE T. BURNS, 8th year, Rogers Street, Corner Butman road	1878	600
ANNIE E. DONOVAN, 7th and 8th years, 27 Madison street	1895	600
BERTHA M. ROWLANDSON, 6th and 7th years, 11 Holyrood avenue	1891	600
KATE J. HAYES, 6th year, 15 Floyd street	1879	600
MARGIE F. MARREN, 5th and 6th years, 420 Fletcher street	1886	600

SARAH J. CROSBY, 5th year, 12 Simpson place	-	-	-	1868	600
BERTHA McCUE, 5th year, 217 Appleton street	-	-	-	1900	600
MARY A. BALCH, 4th year, 257. Appleton street	-	-	-	1865	600
JULIA B. RIORDAN, 4th year, 58 Second avenue	-	-	-	1897	600
JULIA A. KENNEY, 4th year, 99 Washington street	-	-	-	1901	600

CHARLES STREET SCHOOL.

Charles Street, between Gorham and Chapel streets.

ALICE T. OWENS, Principal, 3d year, 4 Belmont street	-	-	1878	\$ 650
ELLA E. GARDNER, 2d year, 225 Branch street	-	-	1871	600
ELLEN A. O'CONNELL, 2d year, 48 Mead street	-	-	1896	600
MARGARET A. HARRAHAN, 1st year, 32 Marshall street	-	-	1882	600

COTTAGE STREET SCHOOL.

Corner Cottage and Chapel Streets.

ROSE E. MACVEY, Principal, 2d and 3d years, 46 Linden street	-	-	-	-	-	-	-	1887	\$ 650
ANNIE L. MURPHY, 1st and 2d years, 870 Gorham street	-	-	-	-	-	-	-	1901	600
E. LAURA MOORE, temp., 1st and 2d years, 48 Hastings street	-	-	-	-	-	-	-	-	-

ELIOT SCHOOL.

Corner Favor and Summer Streets.

ELLEN A. STILLINGS, Principal, 1st and 2d years, 24 Bellevue street	-	-	-	-	-	-	-	-	-	1875	\$ 650
ELLEN A. CORBETT, 3d year, 32 Highland street	-	-	-	-	-	-	-	-	-	1878	600
NELLIE T. O'GRADY, 2d year, 73 Newhall street	-	-	-	-	-	-	-	-	-	1881	600
LOYOLA McCANN, 1st year, 17 Wentworth avenue	-	-	-	-	-	-	-	-	-	1893	600

GREEN GRAMMAR SCHOOL

Merrimack Street.

ALBERT L. BACHELLER, Master, 25 Nesmith street	-	-	-	1874	\$2000
RUTH B. BAILEY, 9th year, 56 Sixth street	-	-	-	1871	600
CLARA A. HANAFORD, 8th year, 142 Wilder street	-	-	-	1869	600
SADIE F. McCORT, 8th year, 13 Ralph street	-	-	-	1901	600
LIZZIE A. NOLAN, 7th year, 301 Pawtucket street	-	-	-	1876	600
ESTHER G. DONLAN, 7th year, 455 High street	-	-	-	1897	600

ROLL OF TEACHERS.

87

JENNIE E. FAY, 6th year, 115 Stackpole street	- - - 1891	600
MARY M. KEARNEY, 6th year, 94 Andrews street	- - - 1895	600
LENA A. GOOKIN, 5th year, 20 Walden street	- - - 1880	600
CATHERINE F. MCCARTHY, 5th year, 647 Market street	- - - 1889	600
ELLA J. CARLETON, 4th year, 1072 Bridge street	- - - 1882	600
ANNIE T. DELAY, 4th year, 87 Mt. Washington street	- - - 1900	600
LORETTA L. WARD, temp., 6th year, 220 Fletcher street	- - -	

KIRK STREET SCHOOL.

Corner Kirk and Lee Streets.

ELIZA A. DAVIS, Principal, 2d and 3d years, 100 Canton street	1881	\$ 625
LAURA H. PALMER, 1st and 2d years, 35 Thirteenth street	1882	600

CABOT STREET SCHOOL.

Corner Cabot and Ford Streets.

KATHERINE T. LENNON, Principal, 3d year, 144 School street	1885	\$ 650
MARY T. WHELLEY, 2d year, 1 Fenwick street	- - - 1897	600
MARY J. MURPHY, 1st year, 112 Jefferson street	- - - 1887	600

CHEEVER STREET SCHOOL.

Cheever Street.

IDA J. CLARKE, Principal, 2d and 3d year, 26 Ash street	- - - 1887	\$ 650
ANNA A. SARGENT, 1st year, 223 Liberty street	- - - 1864	600

WORTHEN STREET SCHOOL.

Worthen Street, between Market Street and Broadway.

MARY J. ALGER, Principal, 1st year, 43 Royal street	- - - 1868	\$ 650
ESTHER V. GREEN, 2d year, 674 Broadway	- - - 1889	600
MARY R. MARREN, 3d year, 420 Fletcher street	- - - 1890	600
ELIZABETH A. PAGE, 1st year, 647 Market street	- - - 1901	600

HIGHLAND GRAMMAR SCHOOL.

(Telephone 1094-2)

Pine Street.

CHARLES W. MOREY, Master, 14 Belmont street	- - - 1880	\$2000
FLORA I. MOFFITT, 9th year, 76 Canton street	- - - 1887	600

MARY F. FOSS, 9th year, 62 Burt street	- - -	1891	600
ABBIE F. WOODWARD, 8th year, 157 Dartmouth street	- -	1869	600
ESTELLE L. WHITNEY, 8th year, 13 Oakland street	- -	1885	600
LEONORA K. BATTLES, 7th year, 11 Edson street	- -	1895	600
ANNA A. BURNHAM, 7th year, 247 Liberty street	- -	1894	600
LUELLA A. WARDWELL, 6th year, 13 Oakland street	- -	1870	600
MINNIE C. GRAY, 6th year, 106 Liberty street	- -	1890	600
FANNIE M. CLARK, 5th year, 13 Oakland street	- -	1874	600
LULU TURNER, 5th year, 11 Edson street	- -	1900	600
GRACE R. SANDERS, 4th year, 67 South Loring street	- -	1897	600
MABEL E. BROWN, 4th year, 172 Branch street	- -	1901	600
JENNIE E. ROGERS, 4th year, 214 Gibson street	- -	1904	500
HELEN A. DOW, 5th year, temp., 149 B street	- -		
ALICE H. BACHELLER, temp., 6th year, 25 Nesmith street	-		
EDITH V. COCKERILLE, temp., 7th year, 210 School street	-		

HIGHLAND ANNEX.

At Franklin School.

ARVILLA L. READER, 4th year, 216 Appleton street	- -	1871	\$ 600
GRACE F. WARD, 5th year, 6 Appleton place	- -	1893	600

FRANKLIN SCHOOL.

Corner Branch and Middlesex Streets.

SARAH C. FISKE, Principal, 3d year, 246 Appleton street	-	1866	\$ 650
LIZZIE S. LOWE, 2d year, 13 Nichols street	- - -	1857	600
MARION J. STEVENSON, 1st and 2d years, 63 Princeton street		1878	600
KATE G. JONES, 1st year, 119 Andover street	- -	1880	600

PINE STREET SCHOOL.

Corner Pine and Gibson Streets.

CARRIE J. BAILEY, Principal, 3d year, 16 Loring street	-	1884	\$ 625
GRACE I. WASHBURN, 2d year, 15 Loring street	- -	1897	600
HELEN D. SWAIN, 1st year, 180 Pawtucket street	- -	1904	500

DOVER STREET SCHOOL.

Dover Street, between Middlesex and Grove Streets.

CLARA B. HORNE, Principal, 3d year, 87 South Highland street	1877	\$ 650
CLEMENTINE H. BOWERS, 2d year, 18 Loring street - -	1876	600
BERTHA GARDNER, 1st year, 32 Robbins street - - -	1887	600

MIDDLESEX VILLAGE SCHOOL.

Middlesex Street, corner Cornell Street.

HARRIET F. WAKEFIELD, Principal, 5th and 6th years 2 Loring street - - - - -	1889	\$ 650
KATHERINE G. EGAN, 3d and 4th years, 17 Princeton street	1904	500
GERTRUDE E. DANE, temp., 1st and 2d years, 2 Wellington sq.		

POWELL STREET SCHOOL.

Powell Street, near Liberty Street.

VIOLA A. HAMBLETT, Principal, 1st and 2d years, 463 School street - - - - -	1876	\$ 625
ELLEN J. PIPER, 2d and 3d years, 55 Norcross street - -	1894	600

ABRAHAM LINCOLN GRAMMAR SCHOOL.

Chelmsford Street.

JAMES L. MELLETT, Master, 74 Pentucket avenue - - -	1893	\$2000
MARGARET M. SPARKS, 9th year, 11 Fort Hill avenue - -	1894	600
GRACE SCRIBNER, 8th year, 190 Liberty street - - -	1893	600
BRIDE T. SWEENEY, 7th year, 138 Pleasant street - -	1900	600
IRMA V. HODGMAN, 7th year, 239 Stevens street - - -	1897	600
HELEN J. O'HEARN, 6th year, 649 Westford street - -	1900	600
ALICE L. GOOKIN, 6th year, Wamesit - - - - -	1902	600
MARGARET G. McDONALD, 5th year, 101 Grand street -	1904	500
ESTHER M. DOWNING, 5th year, 674 Broadway - - -	1904	500
ELLEN L. FLOYD, 4th year, 124 Stevens street - - -	1887	600
ELLA E. PRESCOTT, 4th year, 71 Bellevue street - - -	1894	600

Primaries in Lincoln School Building.

ELSIE M. PUFFER, 1st year, 942 Middlesex street - - -	1901	600
SADIE M. DEANE, 1st year, 82 B street - - - - -	1902	600

HOWARD STREET SCHOOL.

Howard Street, between Chelmsford and Hale Streets.

MARION E. GREENE, Principal, 3d year, 96 Pine street	-	1884	\$ 650
MARGARET S. JAMIESON, 2d year, 112 Shaw street	-	1904	500

GRAND STREET SCHOOL.

(Howard Street Annex.)

Grand Street, between Westford and Middlesex Streets.

JENNIE M. BENNETT, 1st and 2d years, 24 Bellevue street	-	1885	\$ 600
CORINNA G. COVER, 1st year, 16 Lombard street	-	1901	600

PLAIN STREET SCHOOL.

Corner Plain and Powell Streets.

FLORA H. SPRAGUE, Principal, 3d year, 589 School street	-	1882	\$ 650
MARY A. FARNHAM, 2d and 3d years, 90 Gates street	-	1887	600
LILLA M. STANLEY, 2d year, 2 Horn street	-	1897	600
MINNIE A. WILLSON, 1st and 2d years, 28 Cambridge street	-	1887	600
LENA M. ROBINSON, 1st year, 68 So. Walker street	-	1898	600

MOODY GRAMMAR SCHOOL.

Corner High and Rogers Streets.

WILLIAM S. GREENE, Master, 454 Andover street	-	1883	\$2000
MERCENA F. WHITEHORN, 9th year, 268 E. Merrimack street	-	1877	600
CARRIE A. PAUL, 8th year, 11 Porter street	-	1891	600
IDA L. SAMUELS, 7th year, 56 Fifth avenue	-	1898	600
ELLA M. BREEN, 6th year, 23 Marsh street	-	1893	600
FRANCES E. HARDMAN, 5th and 6th years, 263 Fairmount street	-	1873	600
FRANCES E. GARRITY, 5th year, 34 Read street	-	1874	600
NELLIE C. MAHONEY, 4th year, 17 North street	-	1898	600
FLORA A. OWEN, 4th year, 11 Porter street	-	1900	600
MARTINA F. McMAHON, temp., 33 Mead street.			

ROLL OF TEACHERS.

91

POND STREET SCHOOL.

Corner High and Pond Streets.

MARIETTA HILL, Principal, 3d year, 278 East Merrimack street	1870	\$ 650
WINIFRED HAGGERTY, 2d year, 52 Huntington street	- 1884	600
ADELAIDE CROWLEY, 1st year, 115 Fort Hill avenue	- 1894	600

HIGH STREET SCHOOL

High Street, between Chestnut and Everett Streets.

CLARA A. EMERSON, Principal, 2d and 3d years, 216 Appleton street	- - - - - 1869	\$ 625
MAUDE E. GREEN, 1st year, 238 East Merrimack street	- 1900	600

FAYETTE STREET SCHOOL.

Fayette Street, between Chestnut and Everett Streets.

GEORGIA A. HARNDEN, Principal, 2d and 3d years, 149 Pleasant street	- - - - - 1885	\$ 625
MABEL C. WALSH, temp., 1st and 2d year, 145 Mammoth road		

SYCAMORE STREET SCHOOL.

Sycamore Street.

FLORENCE E. ROWELL, Principal, 1st, 2d and 3d years, 356 East Merrimack street	- - - - - 1900	\$ 625
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PAWTUCKET GRAMMAR SCHOOL.

Mammoth Road, Pawtucketville.

WILLIAM P. BARRY, Master, 1280 Middlesex street	- - 1887	\$2000
ELLEN M. MACDONALD, 9th year, 210 School street	- - 1878	600
CARRIE M. HART, 8th year, 16 Varney street	- - 1887	600
ELIZABETH A. HART, 7th year, 16 Varney street	- - 1886	600
CHARLOTTE C. WALSH, 6th year, 76 Mt. Vernon street	- 1902	600
JULIA M. HEALEY, 5th year, 11 Warwick street	- - 1870	600
GOLDIE M. GARDNER, 4th year, 15 Columbus avenue	- - 1898	600
MAUDE E. MOODY, temp., 4th and 6th years, 25 Lane street		

NEW MOODY STREET SCHOOL.

New Moody Street.

ELLEN M. HOLDEN, Principal, 3d year, 21 Eighth avenue	- 1876	\$ 650
EUGENIA L. HOGAN, 2d year, 182 Mt. Vernon street	- - 1889	600

NELLIE F. DAVIDSON, 2d and 3d years, 20 Lombard street	- 1891	600
ALICE B. BESSE, 2d year, 581 Rogers street	- - - 1891	600
MAUDE M. HARDY, 1st year, 31 Fourth avenue	- - - 1901	600
ANNA I. CASSIDY, 1st year, 4 Fifth avenue	- - - 1902	600

LEXINGTON AVENUE.

Lexington Avenue, near Varnum Avenue.

HELEN KOHAWN, ungraded, 63 Thirteenth street	- - 1877	\$ 625
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TRAINING SCHOOL.

Charles and Lawrence Streets.

(Telephone 531-3)

GERTRUDE EDMUND, Principal	- - - - 1895	\$2000
MABEL W. EWINGS, 3 Astor street	- - - - 1891	900
ADDIE B. MERRILL, 465 Bridge street	- - - - 1892	900
HELEN M. SHEAN, 11 Fort Hill avenue	- - - - 1891	900
MARGARET C. FOX, 9th year, 8 Eddy street	- - - - 1900	600
GRACE C. DELANEY, 2d year, 791 Broadway	- - - - 1900	600
MABEL H. ELA, 407 Walker street	- - - - 1900	600
HARRIET L. WHEELER, 3d year, 47 Belmont avenue	- - - 1900	600
MARY E. SNOW, 1st year, 89 School street	- - - - 1901	600
ADDIE E. EDWARDS, 550 Westford street	- - - - 1900	600
MARY CASSIDY, 44 B street	- - - - -	
ELLEN F. CULL, 46 Tyler street	- - - - -	
MARGARET L. HAGERTY, 46 Tyler street	- - - - -	
ANNIE E. IRVING, 119 West street	- - - - -	
CHRISTINE M. KANE, 723 Central street	- - - - -	
EDITH B. KELLEY, 15 Alder street	- - - - -	
MABEL A. METCALF, 93 Vernon street	- - - - -	
ELIZABETH PROVENCHER, 376 Hildreth street	- - - - -	
HARRIET B. WHITTAKER, Tyngsborough	- - - - -	

CENTRAL STREET SCHOOL.

Central Street, opposite Hudson Street.

ELIZA COWLEY, Principal, 3d year, 484 Rogers street	- - 1857	\$ 650
ELIZABETH G. LAWLER, 2d year, 260 High street	- - 1897	600

WEST SIXTH STREET.

West Sixth Street, between Coburn and Jewett Streets, Centralville.

STELLA J. ALLEN, Principal, 3d year, 115 Third street	-	-	1879	\$ 650
LIZZIE F. LAMERE, 2d and 3d years, 63 Canton street	-	-	1887	600
MARION S. KEYES, 1st and 2d years, 102 Third street	-	-	1888	600
MARY J. CALLAHAN, 1st year, 117 Durant street	-	-	1895	600

TENTH STREET SCHOOL.

Corner Tenth and Varnum Streets, Centralville.

MARY F. BEANE, Principal, 3d year, 212 Tenth street	-	-	1879	\$ 650
FANNIE H. MURPHY, 2d year, 42 Twelfth street	-	-	1889	600
ALICE A. HOLTHAM, 1st and 2d years, 1107 Bridge street	-	-	1887	600
ELLA A. BAILEY, 1st year, 128 Sixth street	-	-	1869	600

LAKEVIEW AVENUE SCHOOL.

Lakeview Avenue, Centralville.

MARGARET J. MCCLUSKEY, Principal, 3d year, 246 Methuen street	-	-	-	-	-	-	-	-	-	1890	\$ 650
MARTHA ROGERS, 2d year, 131 Cumberland road	-	-	-	-	-	-	-	-	-	1895	600
M. JOSEPHINE DONEHUE, 2d year, 891 Bridge street	-	-	-	-	-	-	-	-	-	1900	600
GERTRUDE C. RING, 1st year, 11 Woodward avenue	-	-	-	-	-	-	-	-	-	1898	600
MARY G. COURTNEY, 1st year, 75 Chestnut street	-	-	-	-	-	-	-	-	-	1904	500
MARY E. MEEHAN, 1st year, 215 Worthen street	-	-	-	-	-	-	-	-	-	1891	600

BILLINGS STREET SCHOOL.

MALVINA LAMERE, Principal, 1st year, 6 West Eleventh street	1894	\$ 650
ANNIE M. ROBBINS, 3d year, 62 Twelfth street	-	600
ETTA FOYE, 2d year, 201 Market street	-	600

KINDERGARTENS.

AGAWAM STREET.

SARAH G. SPARKS, Principal, 59 Elm street	-	-	-	1894	\$ 500
ROSEMARY LENNON, 39 Carter street	-	-	-	1895	450

BARTLETT SCHOOL.

E. BELLE PERHAM, Principal, 90 Riverside street	-	-	-	1893	500
EDITH A. ANDREWS, 77 Fort Hill avenue	-	-	-	1897	450

CHARLES STREET.

MABEL D. NICKERSON, Principal, 136 Chestnut street	-	-	-	1893	500
M. ETHEL BAKER, 290 East Merrimack street	-	-	-	1899	450

CHAPEL STREET.

MARIETTA G. GORMLEY, Principal, 22 Lyon street	-	-	-	1895	500
KATHERINE C. EARLEY, 17 Pleasant street	-	-	-	1896	450

DOVER STREET.

ELIZABETH A. WILSON, Principal, 15 South Canton street	-	-	-	1893	500
ELLA M. PENN, 262 London street	-	-	-	1901	450

FRANKLIN SCHOOL.

N. GRACE TAYLOR, Principal, 7 Ware street	-	-	-	1895	500
HORTENSE M. LAMERE, 6 West Eleventh street	-	-	-	1899	450

LINCOLN SCHOOL.

ELSIE M. CRAGIN, Principal, 114 South Walker street	-	-	-	1895	500
GERTRUDE A. ROBERTS, 74 Stevens street	-	-	-	1897	450

MOODY SCHOOL.

MARY C. WALKER, Principal, 100 Appleton street	-	-	-	1893	500
ALICE F. SEETON, 158 Mammoth road	-	-	-	1901	450

MORRILL SCHOOL.

HELEN W. NOYES, Principal, 49 Nesmith street	-	-	-	1896	500
S. ALICE KNAPP, 336 East Merrimack street	-	-	-	1899	450

PAWTUCKET.

M. MARIETTA KING, Principal, 205 Stackpole street	-	-	-	1895	500
S. HORTENSE TABOR, 82 Riverside street	-	-	-	1896	450

PLAIN STREET.

EDITH A. HOWITT, Principal, 52 Myrtle street	-	-	-	1897	500
AGNES E. COBURN, 47 Twelfth street	-	-	-	1901	450

PINE STREET.

LOUIE I. SMITH, Principal, 94 Princeton street	-	-	-	1895	500
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VARNUM SCHOOL.

NETTIE M. CONANT, Principal, 93 Vernon street	-	-	-	1892	500
CLARA M. EVERETT, 945 Middlesex street	-	-	-	1896	450

SUPERVISOR OF KINDERGARTENS.

ANNA W. DEVEREAUX, Tel. 957, 9 Nesmith street	-	-	-	1893	500
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MUSICAL DIRECTOR.

FREDERICK O. BLUNT, Tel. 1153-2, 409 Westford street	-	-	-	1898	1250
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ASSISTANT IN MUSIC.

JOSEPHINE C. COBURN, Tel. 947-12, 25 Fifth street	-	-	-	1903	700
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TEACHERS OF DRAWING.

OLIVE E. UNDERHILL, 117 Branch street	-	-	-	1887	750
EDMUND KETCHUM, 19 Paige street	-	-	-	1904	750

TEACHER OF SEWING.

IDA J. FLINT, 200 Liberty street	-	-	-	1880	800
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MILITARY INSTRUCTOR.

COLBY T. KITTREDGE, 14 Ralph street	-	-	-	1901	500
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ABSENT ON LEAVE.

ELIZABETH F. BLANDIN	-	-	-	-	-	Varnum
ALICE M. MAGOON	-	-	-	-	-	Varnum

TRAINING SCHOOL GRADUATES.

CLASS OF JUNE, 1902.

Mary E. Crowley, 436 Lincoln street.
 Gertrude E. Dane, 2 Wellington square.
 Helen A. Dow, 149 B street.
 Ethel M. Everett, 12 Belmont street.
 Edith Farrington, 182 Perry street.
 Martina F. McMahon, 33 Mead street.
 E. Laura Moore, 48 Hastings street.
 Elizabeth Murphy, 159 Third avenue.
 Catherine G. O'Sullivan, 105 Mt. Washington street.
 Alice Richardson, 213 Branch street.
 Mabel C. Walsh, 145 Mammoth road.
 Loretta L. Ward, 220 Fletcher street.

CLASS OF JUNE, 1903.

Alice H. Bacheller, 25 Nesmith street.
 Avis J. Coburn, 145 Beacon street.
 Mary H. Coburn, 145 Beacon street.
 Edith V. Cockerille, 210 School street.
 Bessie F. Davidson, 64 Warwick street.
 Rebecca A. Gardner, 75 Pine street.
 Anna F. Joyce, 22 Twelfth street.
 Annie L. Mahoney, 41 Butterfield street.
 Maude E. Moody, 25 Lane street.
 Mary G. Quinn, 28 Chapel street.
 M. Gertrude Seede, 85 Dover street.
 Lillian A. Strout, 111 So. Loring street.
 Mary E. Tobin, 40 Linden street.

CLASS OF JUNE, 1904.

Hannah M. Barrows, 19 Newhall street.

Christine Cameron, 872 Mammoth road, Dracut.

Marguerite Elvin, 258 Varnum avenue.

Esther M. Greene, 179 Warwick street.

Carrie E. Hale, 15 Robbins street.

Lisbeth D. Mann, 235 Walker street.

Caroline McGarvey, 34 Laurel street. .

Alice E. Ramsay, 58 Fremont street.

Elizabeth H. Seede, 85 Dover street.

Etta M. Smith, 1110 Lawrence street.

TEACHERS' CERTIFICATES.

Granted since January 1, 1902.

FIRST GRADE.

Wm. Hanson Howard, Dartmouth, '02, 40 Arlington street.
 Wm. A. Martin, Ottawa, '02, 153 High street.
 Michael A. Tighe, Boston College, '03, 31 Hovey avenue.
 Elmer Garfield Brennon, Dartmouth, '04, 71 Robbins street.
 Harold R. Wade, Harvard, 278 East Merrimack street.

SECOND GRADE.

Elizabeth Murphy, Boston University, '01, 159 Third avenue.
 Alice Richardson, Smith, '01, 213 Branch street.
 Ethel M. Everett, Wellesley, '01, 12 Belmont street.
 Alice H. Batcheller, Vassar, '02, 25 Nesmith street.
 Susan G. Burbank, Boston University, '02, 130 Bowers street.
 Mary H. Coburn, Smith, '02, 145 Beacon street.
 Avis J. Coburn, Smith, '02, 145 Beacon street.
 Bessie F. Davidson, Boston University, '02, 64 Warwick street.
 Lucy M. Stevenson, Technology, '03, 45 Princeton street.
 Annie Louise Hall, Vassar, '03, 48 Wannalancit street.
 Margaret W. Hall, Vassar, '03, 48 Wannalancit street.
 Lisbeth D. Mann, Acadia University, 235 Walker street.
 Mabel A. Metcalf, Wellesley, '03, 93 Vernon street.

FOURTH GRADE.

Mary I. Halloran, Normal School, 01, 546 East Merrimack street.
 Gertrude B. Crowley, Normal School, '01, 115 Fort Hill avenue.
 Julia M. Adams Normal School, '02, Haverhill, Mass.
 Alda L. Armstrong, Normal School, '02, Littleton, N. H.
 Mina Guyton, Normal School, '02, 45 Fourth avenue.

TEXT BOOKS USED IN THE PUBLIC SCHOOLS.

PRIMARY SCHOOLS.

First Readers, Fifteen Series	Davis's Stories of American History
Second Readers, Fifteen Series	Carroll's Around the World, Book I
Advanced Second and Third Readers, Fifteen Series	Monroe's Reading Chart
Franklin Primary Arithmetic	American Music Reader
Prince's Arithmetic by Grades	American Music Chart
Nichols' Graded Lessons in Number	Blaisdell's Child's Book of Health
	Heath's Vertical Writing Books.

GRAMMAR SCHOOLS.

Third Readers, Several Series	The Mother Tongue, Books I and II
Fourth Readers, Several Series	Frye's Primary Geography
Fifth Readers, Several Series	Frye's Common School Geography
Scudder's Fables and Folk Stories	Eggleston's First Book in American History
De Foe's Robinson Crusoe	Scudder's History and Short History of the United States
Burrough's Birds and Bees	Fiske's History of the United States
Hawthorne's Wonder Book	Thomas's History of the United States
American Literature, Masterpieces	Montgomery's Histories of the United States
Bradbury's Eaton's Arithmetic	Guerber's Story of the Greeks
Werner's Arithmetic, Book III	Guerber's Story of the English
Carpenter's Geographical Readers	Worcester's Comprehensive Dictionary
Carroll's Around the World, Book II	Werner's Mental Arithmetic
Lewis's First Manual of Composition	Heath's Vertical Writing Books
Union Series of Physiologies	American Music Readers
Wentworth's First Steps in Algebra	
Worcester's New Pronouncing Speller	
The Morse Speller	
The Rational Spelling Book	
Reed's Word Lessons	

HIGH SCHOOL.

CHEMISTRY, PHYSICS AND OTHER SCIENCES.

Experimental Chemistry, Newell	Physics, Hoadley
Qualitative Analysis, Irish	Physiology, Kellogg
A Text-book of Physics, Hall-Bergen	Physiology, Overton
Elements of Physics, Avery	Physiology, Blaisdell
Botany, Gray	Physiology, Foster and Shore
Geology, Le Conte	Physiology, Martin
Physics, Gilley	Physiology, Walker
Elements of Chemistry, Williams	Physiology, Colton
Herbarium, Wilson	Tarr's Physical Geography
Lessons in Astronomy, Young	Geology, Brigham

ENGLISH.

Ancient Mariner, Coleridge	Iliad, Pope
Carlyle's Essay on Burns	Iliad, Bryant
Chaucer to Arnold, George	Ivanhoe, Scott
Conciliation with America, Burke	Julius Cæsar, Shakespeare
Composition and Rhetoric, Scott and Denney	Lessons in English, Buehler
Eliot's Silas Marner, Norris	Macbeth, Shakespeare
English Composition, Shaw	Marmion, Scott
Foundations of Rhetoric, Hill	Merchant of Venice, Shakespeare
Hill's Principles of Rhetoric	Milton and Addison, Macaulay
Silas Marner, Eliot	Milton's Lyrics
Sir Roger de Coverly Papers, Addison	The Princess, Tennyson
Story of the Odyssey, Church	Vicar of Wakefield, Goldsmith
Tales from Shakespeare, Lamb	Introduction to English Literature, Pancoast

FRENCH.

Capi et sa Troupe	French Dictionary, Heath
College Plays, Bôcher	French Grammar, Grandgent
Colomba, Mérimée	French Grammar, Fraser and Squair
Le Cid, (Corneille)	French Grammar, Worman
Contes et Légendes, Guerber	French Lyrics, Bowen
Douze Contes Nouveaux, Fontaine	French Reader, Super
French Reader for Beginners, Kuhns	

Exercises No. 1, Grandgent	Grammaire Française, Larivé et Fleury, 2me An.
La Famille de Germandre, Sand	
La Fontaine's Fables, Mme. Beck's Edition	French Syntax and Composition, Bovet
La Siége de Berlin	Le Conscriit de 1813, Erckmann-Chatrain
La Tâche du Petit Pierre	
Le Voyage de Monsieur Perrichon, Labiche	Le Curé de Tours, Balzac
French Composition, Grandgent	Méthode Berlitz, Part I
Sight Reading, Rogers	Pêcheur d'Islande, Loti
La Grammaire, Labiche	Readings from French History Super
Scènes de la Révolution Française, Lamartine	Selected Stories, Daudet
Le Dix Septieme Siecle	L'Expédition de Bonaparte en Egypte, Thiers
	French Commercial Reader, Pitman

GERMAN.

Höher als die Kirche, Clary	German Dictionary, Heath
German Composition, Fasnacht	Der Zerbrochne Krug, Joyne's
Traumereien, Leander	Schiller's Dreissigjährige, Krieg
Heise's L'Arrabiata	Schiller's Der Nefe Als Onkel
Harris' German Lessons	Joyne's Meissner's German Grammar
Wesselhoefts' German Composition	Riehl's Der Fluch der Schönheit
Harris' German Composition	Gold's Tales from Hauff
Immensee, Storm's	Dippold's Scientific German
	Schiller's Jungfrau von Orleans

GREEK.

Anabasis	Greek Lexicon, Liddell and Scott
Greek Composition, Higley	Greek Lexicon, White
Greek Composition, Woodruff	Greek Reader, Goodwin
Greek Grammar, Goodwin	Homer's Iliad, Seymour
Greek Lessons, White	Homer's Odyssey, Seymour

HISTORY.

Age of Pericles, Grant	Greek Civilization, Mahaffy
American History, Montgomery	History of England, Coman and Kendall
Ancient History, Myers	
English History, Montgomery	History of English People, Green

English History, Higginson and Channing	History of Rome, Allen
European History, Adams	Johnston's American History
Fiske's School Histories	Plutarch's Lives, Kaufman
General History, Myers	Source Book, Hart
Greek History, Oman	U. S. History, McMaster
Greek History, Botsford	U. S. History, Channing
Greek Tragedians, Church	U. S. History, Scudder

LATIN.

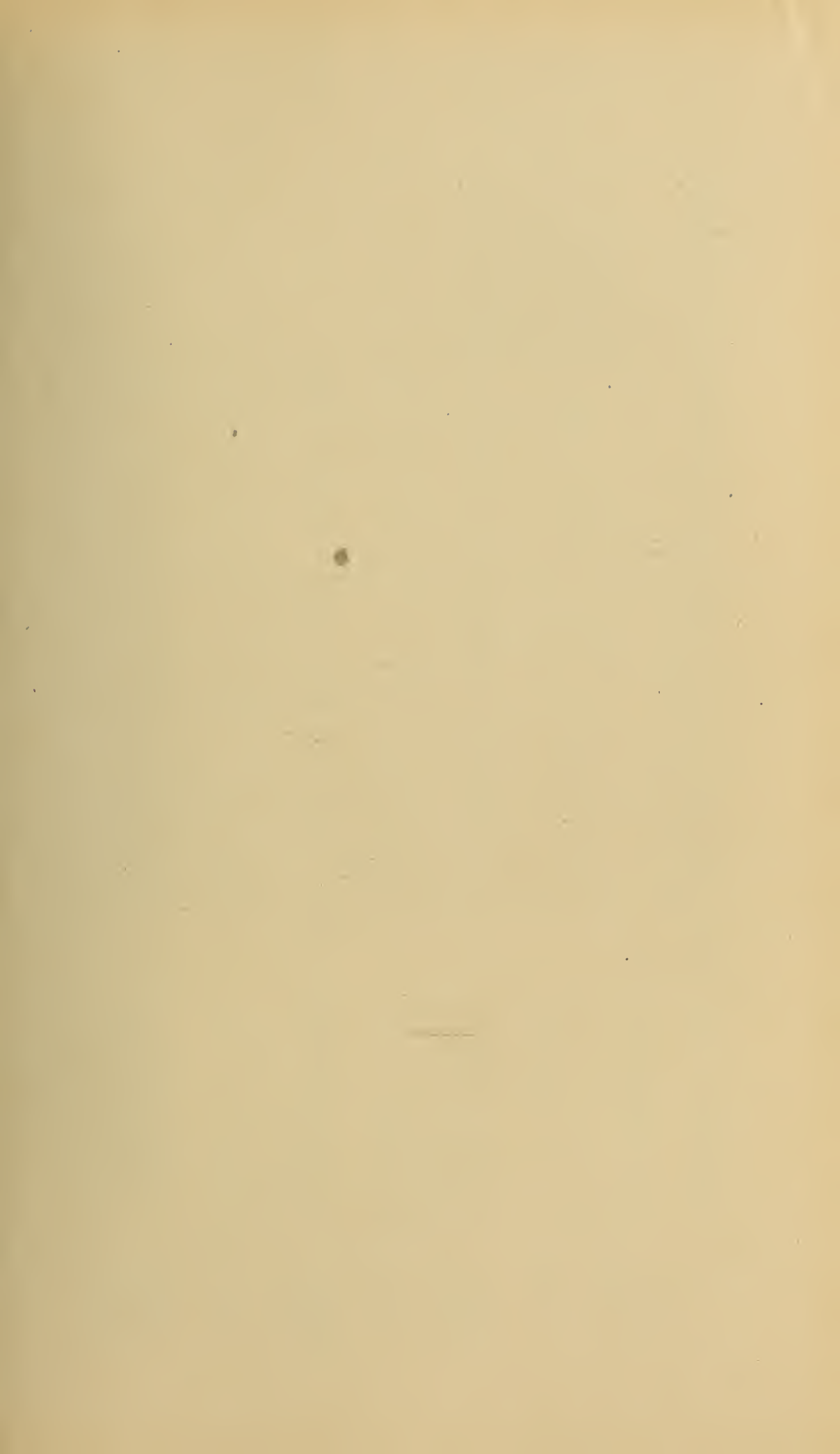
Cæsar, Allen and Greenough	Latin Lexicon, White
Cicero, Allen and Greenough	Nepos, Barss
Gate to Cæsar, Collar	New Latin Composition
Latin Composition, Part I, Daniell	Ovid, Allen and Greenough
Latin Composition, Part II, Daniell	Sallust
Latin Composition, Collar	Virgil, Allen and Greenough
Latin, for Sight Reading, Tomlinson	Virgil, Brice
Latin Grammar, Allen and Greenough	Viri Romæ, Rolfe
	First Year Latin, Collar and Daniell

MATHEMATICS.

Academic Algebra, Wells	Geometry, Wells
Arithmetic, Wentworth and Hill	Higher Algebra, Wells
Geometry, Plane and Solid, Wentworth	Surveying, Davies
	Trigonometry, Wentworth

COMMERCIAL.

Commercial Geography, Adams	Commercial Arithmetic, Williams and Rogers
Mental Arithmetic, Williams and Rogers	Commercial Law, White
Business Correspondence, Williams and Rogers	Bookkeeping and Business Practice, Williams and Rogers
Seventy Lessons in Spelling, Williams and Rogers	Shorthand, Gregg



SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS OF THE CITY OF LOWELL FOR THE YEAR ENDING JUNE 30, 1904.

SCHOOLS	LOCATION	Whole No. Enrolled			No. of pupils belonging Dec., 1904			Whole No. of pupils on time books since Sept. 1, 1903			Average No. of pupils belonging to school			Average daily attendance			No. en'd not rec'd from any other pub. school	Rec'd from other pub. schools of lower grade	Rec'd from other pub. schools of same grade	Sent to other public sch's of higher grade	Sent to other public schools of same grade	Per cent. of attendance	Number of class rooms in regular use	Number of seats or sit-tings in these rooms	Number of half days of school, counting each room as a "school"
		Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total									
High	Kirk and Anne Sts.	458	501	959	427	476	903	458	501	959	418	472	890	398	449	847	80	256	0	178	0	95	34	959	12172
Bartlett (Gram.)	Wannalancit St.	204	212	416	194	231	425	215	234	449	186	208	394	175	194	369	41	72	33	27	23	94	11	587	3817
PRIMARIES																									
Cross St.	Cross St., near Mt. Vernon St.	76	62	138	82	58	140	90	70	160	70	55	125	65	50	115	18	2	15	25	17	92	4	196	1395
Morrill	Adams and Common Sts.	60	55	115	44	37	81	61	66	127	50	43	93	47	37	84	35	0	17	25	9	91	3	140	1354
Bartlett	Wannalancit St.	91	99	190	79	89	168	94	113	207	76	90	166	69	81	150	40	28	17	40	18	90	4	198	1386
Totals for Primaries.....		227	216	443	205	184	389	245	249	494	196	188	384	181	168	349	93	30	49	90	44	91	11	534	3885
Butler (Gram.) ..	Gorham St.	374	359	733	340	364	704	391	371	762	352	231	683	328	303	631	38	148	29	63	19	92	18	882	6248
PRIMARIES																									
Agawam St.	Cor. Agawam and Barrington Sts.	61	50	111	50	43	93	64	55	119	57	48	105	54	44	98	15	12	9	34	8	94	3	145	1053
Carter St.	Carter St.	113	104	217	102	83	185	120	115	235	102	95	197	94	82	176	52	1	18	46	19	89	5	280	1760
London St.	Cor. London and West Sts.	80	61	144	66	58	124	87	67	154	72	50	122	66	45	111	28	0	10	32	11	90	3	151	1059
Lyon St.	Cor. Central and Lyon Sts.	99	105	204	102	100	202	107	116	223	97	96	193	83	88	171	79	6	19	44	15	90	4	236	1392
Weed St.	Cor. Gorham and Weed Sts.	67	52	119	55	55	110	74	57	131	59	43	102	55	36	91	20	0	15	29	9	89	3	168	1051
Totals for Primaries.....		420	375	795	375	339	714	452	410	862	387	332	719	352	295	647	104	19	71	185	62	90	18	980	6315

SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS. — Continued.

Training (Gram.)	162	157	319	138	114	252	168	162	330	136	138	274	125	126	251	34	68	11	9	12	92	9	399	3150
PRIMARIES																								
Ames St.	80	73	153	63	70	133	90	77	167	70	60	130	66	55	121	49	4	20	33	22	93	4	226	1404
Central St.	90	84	174	81	88	169	94	88	182	79	65	144	71	60	131	38	6	8	34	22	91	4	210	1404
Training	120	107	227	88	81	169	140	116	256	99	79	178	88	69	157	62	2	27	25	29	89	4	210	1400
Totals for Primaries.....	290	264	554	232	239	471	324	281	605	248	204	452	225	184	409	149	12	55	92	73	91	12	646	4208
Edson (Gram.)..	215	201	416	231	194	425	235	213	448	197	183	380	183	168	351	34	88	27	21	16	92	11	565	3894
PRIMARIES																								
Charles St.	89	79	168	68	93	161	91	105	196	70	83	153	63	72	135	57	7	28	30	36	88	4	143	1411
Cor. Cottage and Chapel Sts.	63	68	131	49	46	95	71	75	146	57	58	115	51	52	103	17	7	16	24	21	89	3	157	1056
Cor. Sumner and Favor Sts.	100	98	198	76	58	134	114	106	220	81	66	147	73	60	133	92	1	34	21	34	89	4	220	1412
Totals for Primaries.....	252	245	497	193	197	390	276	286	562	208	207	415	187	184	371	166	15	78	75	91	89	11	520	3879
Green (Gram.) ..	244	279	523	213	248	461	260	290	550	204	232	436	191	216	407	131	77	27	22	17	94	11	574	3900
PRIMARIES																								
Cabot St. A.	69	74	143	40	35	75	81	79	160	47	48	95	42	43	85	114	0	17	27	8	89	3	168	1051
Cor. Cheever and Tucker Sts.	74	52	126	27	24	51	76	53	129	37	19	56	32	17	49	126	0	3	14	7	88	2	101	732
Cor. Kirk and Lee Sts.	74	53	127	51	30	81	87	67	154	48	33	81	45	30	75	51	9	27	22	0	92	2	216	707
Worthen St.	107	98	205	69	72	141	126	127	253	70	77	147	68	6	137	118	8	31	34	17	93	4	230	1400
Totals for Primaries.....	324	277	601	187	161	348	370	326	696	202	177	379	187	159	346	409	17	78	97	32	91	11	715	3890
High'd (Gram.)	337	385	722	338	380	718	354	399	753	313	355	668	293	331	624	59	123	28	70	39	93	16	735	5647
PRIMARIES																								
Dover St.	84	70	154	56	51	110	88	73	161	59	70	129	54	59	113	29	17	16	52	8	90	3	153	1065
Pine St.	47	57	101	48	43	91	48	61	109	42	51	93	39	46	85	88	15	6	30	3	94	3	168	1059
Franklin St.	85	67	152	82	74	166	102	83	185	69	59	128	67	47	114	44	23	48	24	44	90	4	196	1412
Powell St.	39	54	93	31	37	68	44	56	100	35	42	77	33	39	72	84	3	13	23	12	93	2	112	706
Totals for Primaries	255	248	503	217	208	425	282	273	555	205	222	427	193	191	384	245	58	88	129	67	92	12	629	4242

SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS. — Continued.

SCHOOLS	LOCATION	Whole No. Enrolled			No. of pupils belonging Dec., 1904			Whole No. of pupils on time books since Sept. 1, 1903			Average No. of pupils belonging to school			Average daily attendance		No. sent'd not rec'd from any other pub. school	Rec'd from other pub. schools of lower grade	Rec'd from other pub. schools of same grade	Sent to other public sch's of higher grade	Sent to other public schools of same grade	Per cent. of attendance	Number of class rooms in regular use	Number of seats or sit-tings in these rooms	Number of half days of school, counting each room as a "school"	
		Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total												
A. Lincoln (Gr.) PRIMARIES	Chelmsford St., near Lincoln Sq.	191	233	424	210	213	423	200	244	444	175	215	390	160	199	359	25	75	20	27	11	92	10	518	3510
	Howard St., near Hale St.	101	94	195	80	79	159	115	102	217	88	85	173	81	72	153	42	4	22	28	27	89	4	208	1408
	Plain St.	121	106	227	110	98	208	141	114	255	108	93	201	98	83	181	72	17	47	54	23	89	5	280	1765
	In Lincoln Grammar School Building..	50	52	102	45	44	89	60	61	121	41	39	80	33	32	65	62	13	19	0	2	81	2	112	702
	Totals for Primaries.....	272	252	524	235	221	456	316	277	593	237	217	454	212	187	399	176	34	88	82	52	86	11	600	3875
Moody (Gram.) PRIMARIES	Cor. Rogers and High Sts.	220	187	407	216	184	400	228	192	420	207	171	378	191	158	349	24	74	13	43	7	92	8	414	2888
	Fayette St.	38	47	85	37	29	66	50	55	105	34	32	66	31	29	60	40	1	20	10	12	91	2	96	694
	High, bet. Chestnut and Everett Sts. ...	43	30	73	37	26	63	43	33	76	32	25	57	29	23	52	29	7	3	23	5	91	2	84	702
	Oaklands	27	15	42	26	20	46	27	15	42	22	13	35	20	11	31	12	2	0	12	0	89	1	54	351
	Pond St.	77	52	129	70	50	120	80	56	136	69	49	118	59	42	101	17	17	14	36	6	86	3	158	1054
	Totals for Primaries.....	185	144	329	170	125	295	200	159	359	157	119	276	139	105	244	98	27	37	81	23	89	8	392	2801
Pawtucket (Gr.) PRIMARY	Cor. Mammoth Road and Fourth Ave. ...	119	160	279	121	141	262	122	163	285	109	143	252	106	136	242	28	33	18	19	13	96	6	324	2118
New Moody St....	Moody St., opp. Fourth Ave.	132	150	282	103	122	225	131	166	297	120	129	249	109	118	227	77	30	78	47	22	91	6	336	2112
Vannum (Gram.) PRIMARIES	Myrtle and Beech Sts., Centralville ...	365	363	728	350	374	724	402	407	809	332	352	684	317	316	633	100	131	22	46	28	93	17	936	5996
	Billings St., near Hildreth St.	61	77	138	56	66	122	65	81	146	55	57	112	48	52	100	54	5	16	26	8	90	3	162	1054
	Lakeview Ave. ...	185	163	348	155	138	293	199	170	369	118	114	232	113	94	207	177	0	21	23	14	88	6	326	2094
	West Sixth St. ...	79	90	169	72	73	145	91	101	192	69	76	145	43	68	111	46	3	37	34	19	90	4	225	1408
	Tenth St.	107	97	204	85	90	175	117	104	221	88	74	162	79	68	147	46	26	25	52	19	91	4	212	1404
	Totals for Primaries.....	432	427	859	368	367	735	472	456	928	330	321	651	283	282	565	327	34	99	135	60	90	17	925	5960

SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS. — Continued.

MIXED SCHOOLS		59	57	116	44	42	86	62	62	121	54	45	99	49	43	92	116	0	8	10	16	91	3	152	1147
Middlesex Vil'ge	Cor. Middlesex and Cornell Sts.	23	20	43	13	13	26	24	20	44	17	14	31	16	13	29	43	0	1	7	5	94	1	56	352
Lexington Ave.	Lexington Ave., near Varnum Ave.																								
	Totals for Mixed Schools.....	82	77	159	57	55	112	86	82	168	71	59	130	65	56	121	159	0	9	17	21	92	4	208	1499
KINDERGARTENS																									
Agawam St.	Agawam St., Primary School Building	33	26	59	19	17	36	33	26	59	19	16	35	17	15	32	59	0	1	18	3	87	1	42	172
Varnum	Varnum School, Centralville.....	34	30	64	26	19	45	34	30	64	19	17	36	15	12	27	64	0	0	1	0	75	1	45	175
Chapel St.	Cor. Chapel and Keene Sts.	36	36	72	22	18	40	36	38	74	25	21	46	21	17	38	74	0	2	6	2	83	1	55	173
Dover St.	Dover St., between Branch and Grove Sts	21	16	37	20	12	32	22	17	39	13	12	25	11	10	21	37	0	2	15	1	84	1	40	176
Bartlett	Bartlett School Bldg., Wannalancit St.	17	26	43	15	20	35	17	26	43	11	17	28	9	16	25	43	0	0	27	0	89	1	45	175
Franklin ..	Franklin School Bldg., Branch St.	31	26	57	19	17	36	31	27	58	22	16	38	16	10	26	57	0	1	2	0	68	1	40	174
A. Lincoln ..	Lincoln School Bldg., Chelmsford St. .	32	30	62	19	16	35	33	30	63	19	18	27	16	14	30	61	0	1	24	0	78	1	45	175
Moody.....	Moody School Bldg., Rogers St.	39	35	74	26	23	49	39	35	74	23	25	48	16	18	34	74	0	0	31	0	70	2	60	348
Pawtucket.....	Pawtucket School Bldg.	25	35	60	15	11	26	25	35	60	14	16	30	11	12	23	60	0	0	5	0	77	1	48	174
Charles St.	Charles St., Cor. Chapel St.	31	26	57	14	12	26	31	26	57	13	13	26	10	10	20	57	0	0	1	1	77	1	45	175
Morrill	Adams and Common Sts.	44	27	71	20	7	27	44	27	71	20	13	33	7	10	27	69	0	2	8	0	82	1	45	174
Pine St.	Cor. Pine and Gibson Sts.	12	17	29	10	9	19	12	17	29	8	12	20	7	9	16	29	0	0	12	0	80	1	33	174
Plain St.	Cor. Plain and Powell Sts.	31	25	56	17	16	33	31	25	56	20	14	34	14	11	25	56	0	0	7	0	71	1	40	176
	Totals for Kindergartens.....	386	355	741	242	197	439	388	359	747	226	210	436	180	164	344	740	0	9	157	7	78	14	583	2441
SUMMARY.— High School.		458	501	959	427	476	903	458	501	959	418	472	890	398	449	847	80	256	0	178	0	95	34	959	12172
Grammar Schools..	Grammar Schools.....	2431	2536	4967	2351	2443	4794	2575	2675	5250	2211	2328	4539	2079	2147	4226	514	889	228	347	185	93	117	5934	41168
Primary Schools	Primary Schools.....	2789	2608	5397	2285	2163	4448	3068	2883	6351	2	90	2116	2068	1873	3941	1934	276	716	1013	526	89	117	6277	41117
Mixed Schools.....	Mixed Schools.....	82	77	159	57	55	112	86	82	168	71	59	130	65	56	121	159	0	9	17	21	93	4	208	1499
	Totals, not including Kindergartens.....	5760	5722	11482	5120	5137	10557	6187	6141	12328	4970	4975	9965	4610	4525	9135	2637	1421	953	1555	732	92	272	13378	95956
	Totals, including Kindergartens	6146	6077	12223	5362	5384	10696	6575	6500	13075	5216	5185	10401	4796	4689	9479	3427	1421	962	1712	739	91	286	13961	98397

AUDITOR'S

Sixty - Ninth Annual Report

OF THE

Receipts and Expenditures

OF THE

CITY OF LOWELL, MASS.

TOGETHER WITH THE

TREASURER'S ACCOUNT AND THE ACCOUNT OF THE COMMISSIONERS OF SINKING FUNDS, FOR THE FINANCIAL YEAR ENDING DECEMBER 31, 1904.



LOWELL, MASS.:
BUCKLAND PRINTING COMPANY,
1905.

AUDITOR'S REPORT

OF THE

RECEIPTS AND EXPENDITURES

For the Year Ending Dec. 31, 1904.

AUDITOR'S REPORT.

CITY OF LOWELL.

AUDITOR'S OFFICE, January 1, 1905.

TO THE CITY COUNCIL:

Gentlemen:—In conformity with the requirements of the Ordinances of the City, I have the honor to present the Sixty-Ninth Annual Report of the Receipts and Expenditures of the City of Lowell for the year ending December 31, 1904, exhibiting the same as classified in the several department accounts, with the value of Real and Personal Property in charge of the several departments, and a statement of the City Debt and the Debt due the City.

RECEIPTS.

The whole amount of money received into the City Treasury from all sources from January 1 to Dec. 31, 1904, was. \$3,785,132 55

\$3,785,132 55

RECEIPTS—Continued.

Of this amount there was received
on account of

General Treasury Fund, Taxes....	\$1,494,770 49
General Treasury Fund, Loans ...	1,554,414 00
General Treasury Fund, Revenue..	414,539 94
Engineering.....	7,755 12
Fire Department, Sundries ..	185 33
Health, Office Sundries.....	175 70
Health, Yard Labor.....	163 75
Inspector of Wires, Sundries	09
Parks, Sundries.....	94 59
Lowell City Hospital, Grain, Gro- ceries and Provisions.....	8,745 36
Lowell City Hospital, Sundries....	1,311 00
Paupers, Outdoor Relief, General Sundries	136 20
Police, Salaries and Labor.....	2,206 51
Public Buildings, Carpenters, Pain- ters, etc.....	1,272 81
Public Buildings, Bills for Materials	49 60
Schools.....	13 60
School Houses Labor.....	1,120 44
School Houses Sundries, work not done by Dept. and Bills for Materials.....	1,119 01
Sewer Maintenance, Labor.....	509 54
Sundries	3,208 43
Sewer Construction.....	16 00
Soldiers' Relief.....	48 00
State Aid	50 00
Streets Yard Labor.....	533 55
Streets Labor.....	83 10
Streets Sundries.....	2,318 46
Watering Streets Labor.....	28 00
Watering Streets Sundries.....	1,372 00
Water Works.....	197,073 64
City Debt.....	91,810 29
Fourth of July Observance.....	8 00

\$3,785,132 55

EXPENDITURES.

The whole amount expended and
ordered to be paid from the
Treasury from Jan. 1, to Dec.
31, 1904 was.....

\$3,696,273 32

\$3,696,273 32

The expenditures were charged to
the following appropriations or
accounts:

Abatement of Taxes	\$	48,496 19
Assessors, Salaries		12,534 13
Sundries		1,147 58
Auditor, Salaries.....		3,527 00
Sundries		440 84
Care of City Hall, Labor.....		5,325 00
Police Officer.....		1,006 50
Sundries		900 00
City Cemeteries.....		8,971 63
City Clerk, Salaries.....		4,628 00
Sundries		1,063 03
City Treasurer, Salaries		7,340 00
Sundries		4,022 85
City Sealer, Salary.....		350 00
Sundries		66 65
City Weigher, Salaries.....		800 00
Sundries		18 50
City Messenger, Salary.....		1,200 00
Sundries.....		399 89
Lighting City Hall and Memorial Building.....		1,550 16
Clerk of Committees, Salary.....		1,200 00
Sundries.....		140 85
Clerk of Common Council		300 00
Elections.....		13,302 25
Engineering		15,033 45
Fire Department Salaries and Labor		109,854 23
Sundries		24,449 85
Fish Warden... ..		40 00
Pound Keeper.		2 92
Health Office, Salaries and Labor..		9,135 00
Sundries		2,621 26

EXPENDITURES—Continued.

Yard Labor.....	28,637 26
Yard Sundries	5,048 43
Heating City Hall and Memorial Building, Labor.....	2,984 00
Fuel	4,300 00
Sundries.....	644 38
Huntington Hall.....	4,556 08
Rifle Range Janitor.....	456 13
Taxes	79 45
Targets, Pastors and Sup- plies.....	83 63
Repairs.....	71 66
Improvements at Range..	299 94
Incidentals	2,573 61
Insurance.....	5,287 77
Inspector of Milk and Vinegar, Salaries	2,206 50
Sundries.....	138 37
Inspector of Animals and Provisions	500 00
Inspector of Wires, Salaries.....	2,128 00
Sundries	737 74
Law Salaries.....	4,828 01
Sundries	714 24
Library	16,000 00
Lighting Streets.....	101,201 39
Public Buildings	20 34
Sundries.....	147 37
Liquor Licenses.....	42,974 00
Mayor, Salaries.....	4,200 00
Sundries	186 22
Stenography and extra Clerk hire.....	7 25
Parks Salaries and Labor.....	8,551 38
Sundries	3,544 48
Lowell City Hospital and Alms- house, Salaries.....	2,700 00
Labor	12,618 48
Grain Groceries and Pro- visions.....	32,627 38
Sundries	23,675 17
Paupers, Out-Door Relief Salaries.	3,785 00
Office Sundries and Trans- portation	825 86
General Sundries.....	48,496 15

EXPENDITURES—Continued.

Police, Salaries of Police Board and Clerk.....	5,000 00
Salaries and Labor.....	132,482 13
Sundries.....	7,099 34
Public Buildings, Salaries.....	2,268 00
Janitor Police Station....	912 50
Assistant Janitor Police Station.....	818 97
Janitor Memorial Building	702 00
Carpenters, Painters, etc..	8,239 00
Board of Horses.....	1,264 94
Electric Power at Shop...	254 76
Work not done by Dept..	5,087 16
Materials.....	4,043 52
Repairing Palmer St. Engine House... ..	1,500 00
New Boiler at Branch St. Engine House.....	499 98
Painting City Hall.....	278 55
Resetting and Repairing Boiler at City Hall.....	1,499 98
Almshouse Repairs.....	2,499 81
Registrars of Voters, Salaries and Labor.....	3,261 25
Sundries.....	824 26
Schools.....	299,532 79
School Houses, Labor.....	11,580 19
Janitors.....	40,606 73
Bills for work not done by Dept. and Bills for Materials.....	11,590 02
New Chimney at Highland School.....	125 00
Concrete Chapel, Cheever and Cottage St. School Basements.....	200 00
New Boiler Lyon St. School.....	500 00
New Boiler at Training School.....	499 97
Repairing Fuller & Warren Furnaces in various schools.....	980 52
Sewer Maintenance, Salaries.....	2,896 27

EXPENDITURES—Continued.

Labor.....	12,451 57
Sundries	11,767 06
Sewer Construction.....	115,989 42
State Aid, Salaries and Sundries...	2,107 14
Military Aid.....	3,931 00
Soldiers Relief.....	9,071 04
State Aid.....	14,937 50
Streets, Salaries.....	4,000 00
Yard Labor.. ..	11,501 94
Labor.....	131,589 46
Sidewalk Repairs.	4,999 20
Sundries	53,503 58
New Sidewalks.....	8,405 40
Supply Salaries.....	5,444 58
Sundries	922 63
Watering Streets, Labor.....	5,011 71
Sundries	11,844 06
State Supervisors.....	824 00
Water Works.....	181,298 24
Temporary Loans.....	1,200,000 00
Edson Cemetery Annex.....	654 64
Bennett Portrait	300 00
Butler Portrait	300 00
Tax Cases.....	292 50
Laying out, grading and extending	
By street.....	2,483 13
Taxes.	335 80
Health, Small Pox.....	1,010 02
Parks, Care of Trees.....	999 99
Middlesex Village School Bell.....	307 88
City Debt.....	367,390 79
Interest	117,289 93
Sinking Funds	38,300 00
Corporation Tax.....	46 32
National Bank Tax.....	11,603 35
Memorial Day G. A. R.....	1,000 00
Spanish War Veterans...	200 00
Fourth of July Observance.....	2,640 32
Band Concerts.....	650 00
Lowell Textile School	8,000 00
Claims for Damages, Injuries, etc..	1,239 00
Fire Alarm Box, Cor. Aiken Ave.	
and Cumberland Road.....	150 00
Underground Wires, Police Dept..	1,272 81

EXPENDITURES—Continued.

Fire Dept.....	1,311 67
State Tax.....	63,034 43
County Tax.....	78,478 87
State Highway Tax.....	97 04
Improving Sanitary Conditions at Colburn School.....	1,999 82
New four-room Building to Relieve Highland School....	2,699 57
Sanitary Improvements in Sundry School Houses and new Chim- ney at Highland School.....	599 90
Bath-rooms at Fletcher and Branch St. Engine Houses.....	800 85
Bath-rooms, Closet and new Floor at Fourth St. Engine House...	599 84
Repairs of Steamer 3.....	14 25
Richardson Bill.....	5,400 00
Rebates on Rent paid for Hunting- ton Hall.....	420 00
	<hr/>
	\$3,696,273 32

CITY DEBT.

Ordinary City Debt. Jan. 1, 1904..	\$2,408,756 79
Borrowed during the year 1904....	254,414 00
	<hr/>
Total	2,663,170 79
Paid during the year 1904.....	345,790 79
	<hr/>
Total Ordinary City Debt, Dec. 31, 1904.....	\$2,317,380 00
Water Debt, Jan. 1, 1904.....	1,183,900 00
Paid during the year 1904	21,600 00
	<hr/>
Total Water Debt, Dec. 31, 1904..	\$1,162,300 00
	<hr/>
Total City Debt. Dec. 31, 1904....	\$3,479,680 00

CITY DEBT—Continued.

Ordinary City Debt, Dec. 31, 1904,	2,317,380 00	
Sinking Funds for payment of same.....	244,017 40	
Net Ordinary City Debt, Dec. 31, 1904.....		\$2,073,362 60
Water Debt, Dec. 31, 1904.....	1,162,300 00	
Sinking Funds for payment of same.....	406,430 22	
Net Water Debt, Dec. 31, 1904...		755,869 78
Total Net Debt, Dec. 31, 1904....		<u>\$2,829,232 38</u>
Total Net Debt, Dec. 31, 1903....	2,933,441 54	
Total Net Debt, Dec. 31, 1904....	2,829,232 38	
Decrease in City Debt during 1904,	<u>104,209 16</u>	
Decrease in Net Ordinary Debt....	49,684 68	

LIMIT OF INDEBTEDNESS.

Total City Debt, Dec. 31, 1904....		\$3,479,680 00
Deduct Water Loans.....	1,162,300 00	
Deduct Exemptions by Legislature,	800,000 00	1,962,300 00
City Debt as it relates to limit of indebtedness.....		<u>1,517,380 00</u>
Limit of Municipal Debt for 1905, 2½ % of average valuation for last three years, \$71,601,535 67	1,790,038 40	
City Debt which relates to limit Dec. 31, 1904.....	<u>1,517,380 00</u>	
Distance from limit Dec. 31, 1904,	272,658 40	
Distance from limit Dec. 31, 1903,	244,270 59	
Increase of distance from limit....	<u>28,387 81</u>	

LOANS, 1904.

Sewer Construction	120,000 00	
Underground Wires, Police Dept..	2,000 00	
Fire Dept.	2,000 00	
Streets, Labor.	43,500 00	
Streets, Sundries.	5,000 00	
Repairs of Steamer 3.	2,000 00	
New four-room Building to Relieve Highland School.	2,700 00	
Sanitary Improvements in Middlesex Village, Powell and Training School, and new Chimney at Highland School.	600 00	
Bath-rooms Fletcher and Branch St. Engine Houses.	800 00	
Bath-rooms, Closets, new Floor at Fourth St. Engine House.	600 00	
City Hospital and Almshouse, Sundries.	4,500 00	
Heating City Hall and Memorial Building, Fuel.	1,300 00	
Richardson Bill.	5,400 00	
Claims for Damages, Injuries, etc. .	1,014 00	
Elections	7,000 00	
Fire Dept. Salaries and Labor.	3,000 00	
Kalsomining Material, etc.	1,175 00	
Registrars of Voters Salaries and Labor	450 00	
Sundries	350 00	
Public Buildings, Board of Horses,	267 96	
School Houses, Janitor	4,296 78	
Health, Cremator Construction. . . .	10,000 00	
Deficiencies.	36,000 00	253,953 74
		<hr/>
General Treasury Fund Revenue,		
Balance of \$17,000 00 Loan..		462 26
		<hr/>
		\$254,414 00
		<hr/>

APPROPRIATIONS, 1904.

	Annual.	Additional.
Assessors Salaries	\$12,551 00	
Sundries	1,500 00	
Auditor, Salaries	3,527 00	
Sundries	730 00	
Care of City Hall, Labor....	5,325 00	
Police Officer....	1,006 50	
Sundries	900 00	
City Cemeteries	9,000 00	
City Clerk, Salaries	4,628 00	
Sundries	1,241 00	
City Treasurer Salaries	7,340 00	
Sundries	3,460 00	562 85
City Sealer Salary	350 00	
Sundries	70 00	
City Weigher Salary	800 00	
Sundries	25 00	
City Messenger Salary	1,200 00	
Sundries	400 00	
Lighting City Hall and Memorial Building	1,547 86	2 30
Clerk of Committees Salary....	1,200 00	
Sundries	200 00	
Clerk of Common Council	300 00	
Elections	6,500 00	7,000 00
Engineering	7,500 00	
Fire Department, Salaries and Labor	106,956 50	3,000 00
Sundries	24,835 00	
Fish Warden	40 00	
Pound Keeper	5 00	
Health Office, Salaries and Labor..	9,161 25	
Sundries	2,200 00	245 56
Health Yard, Labor	28,355 00	118 51
Sundries	5,000 00	48 43
Heating City Hall and Memorial Building, Labor	3,000 00	
Fuel	3,000 00	1,300 00
Sundries	600 00	44 38
Huntington Hall	4,900 00	
Rifle Range Janitor	456 25	
Taxes	87 96	
Targets, Pastors, Supplies,	84 88	
Repairs	70 91	75
Improvements at Range..	300 00	

APPROPRIATIONS—Continued.

	Annual.	Additional.
Incidentals	2,750 00	
Insurance.....	5,474 14	
Inspector of Milk and Vinegar,		
Salaries	2,215 50	
Sundries	200 00	
Animals and Provisions..	500 00	
Wires, Salaries.....	2,128 00	
Sundries	500 00	237 65
Law, Salaries.....	4,826 00	2 01
Sundries	800 00	
Library	16,000 00	
Lighting Streets.....	101,645 00	
Public Buildings.....	30 00	
Sundries	300 00	
New Lights.....	300 00	
Liquor Licenses.....	43,250 00	
Mayor, Salaries.....	4,200 00	
Sundries	400 00	
Stenography and extra		
Clerk hire.....	200 00	
Park Department Salaries and		
Labor.....	9,000 00	1 38
Sundries	3 000 00	450 00
Lowell City Hospital and Alms-		
house, Salaries....	2,700 00	
Labor.....	11,617 89	1,000 59
Grain, Groceries and Pro-		
visions.....	20,000 00	3,882 02
Sundries	16,500 00	5,864 17
Paupers, Out-door Relief, Salaries,	3,785 00	
Office Sundries and Trans-		
portation.....	800 00	25 86
General Sundries.....	39,000 00	9,359 95
Police, Salaries of Police Board and		
Clerk	5,000 00	
Salaries and Labor.....	132,461 25	
Sundries	5,500 00	1,600 00
Public Buildings, Salaries.....	2,268 00	
Janitor Police Station....	912 50	
Assistant Janitor Police		
Station	821 25	
Janitor Memorial Building	702 00	
Carpenters, Painters, etc..	7,000 00	

APPROPRIATIONS—Continued.

	Annual.	Additional.
Public Buildings Sundries, Board of		
Horses.....	1,000 00	267 96
Electric Power at Shop...	300 00	
Bills, work not done by		
Dept.....	5,000 00	87 16
Bills for Materials.....	4,000 00	
Repairing Palmer St. En-		
gine House.....	1,500 00	
New Boiler at Branch St.		
Engine House.....	500 00	
Painting City Hall interior		
and exterior.....	500 00	
Resetting and Repairing		
Boiler at City Hall....	1,500 00	
Almshouse Repairs.....	2,500 00	
Registrars of Voters, Salaries and		
Labor.....	3,000 00	450 00
Sundries	1,000 00	350 00
Schools	280,000 00	19,519 19
School Houses, Labor.....	10,500 00	
Janitors	36,313 33	4,296 78
School Houses Sundries, Bills for		
work not done by Dept. and		
Bills for Materials.....	9,000 00	1,471 01
New Chimney at Highland		
School.....	125 00	
Concrete Chapel, Cheever		
and Cottage St. School		
Basements.....	200 00	
New Boiler Lyon St.		
School	500 00	
New Boiler Training		
School	500 00	
Repairing Fuller & Warren		
Furnaces in various		
schools	1,000 00	
Sewer Maintenance, Salaries.....	2,939 00	
Labor.....	12,000 00	
Sundries	8,561 00	
State Aid, Salaries and Sundries...	2,200 00	
Military Aid.....	5,000 00	
Soldiers Relief.....	9,100 00	

APPROPRIATIONS—Continued.

	Annual.	Additional.
State Aid	15,000 00	
Streets, Salaries	4,000 00	
Yard Labor	11,000 00	
Labor on Streets and Boulevard	90,000 00	43,500 00
Sidewalk Repairs	5,000 00	
Sundries	45,500 00	5,685 12
New Sidewalks	8,500 00	
Supply Salaries	5,429 00	
Sundries	875 00	
Watering Streets, Labor	5,000 00	
Sundries	10,500 00	
State Supervisors		864 00
Health, Small Pox		1,010 02
Parks, Care of Trees		1,000 00
Sewer Construction		120,000 00
Health Cremator Construction		10,000 00
Middlesex Village School Bell		500 00
City Debt	275,580 50	
Interest	135,000 00	
Sinking Funds	38,300 00	
Corporation Tax		46 32
National Bank Tax		11,603 35
Memorial Day, G. A. R.		1,000 00
Spanish War Veterans		200 00
Fourth of July Observance		3,000 00
Band Concerts		650 00
Lowell Textile School		8,000 00
Labor Day		1,500 00
Claims for Damages, Injuries, etc. .		1,239 00
Fire Alarm Box, Cor. Aiken Ave. and Cumberland Road		150 00
Underground Wires, Police Dept. .		2,000 00
Fire Dept.		2,000 00
State Tax		63,034 43
County Tax		78,478 87
State Highway Tax		97 04
Improving Sanitary Conditions at Colburn School		2,000 00
New four-room Building to Relieve Highland School		2,700 00

APPROPRIATIONS—Continued.

	Annual.	Additional.
Sanitary Improvements in Sunday School Houses and new Chim- ney at Highland School.....		600 00
Bath-rooms at Fletcher and Branch St. Engine Houses.....		800 85
Bath-rooms, Closets and new Floor at Fourth St. Engine House..		600 00
Repair of Steamer 3.....		2,000 00
Richardson Bill.....		5,400 00
Rebates on Rent paid for Hunting- ton Hall.....		420 00
	<u>\$1,755,563 47</u>	<u>\$431,330 72</u>

Respectfully submitted,

DAVID CHASE, *Auditor.*

APPROPRIATIONS AND EXPENDITURES.

The Amount of the Unexpended Balance of 1903 — The Amount of the Several Appropriations Made by the City Council During the Year 1904 — The Amount Received into the Treasury from all Sources — The Expenditures in Detail, under Each Appropriation, and the Undrawn Balances December 31, 1904 — Also the Amount of the City Debt — Debts Due the City — Schedules of the Value of Real and Personal Property, Etc.

APPROPRIATIONS AND EXPENDITURES

ABATEMENT OF TAXES.

Balance undrawn Jan. 1, 1904....	\$	49,322	00
Overlaying made by Assessors.....		22,663	80
Supplementary Tax.....		1,134	00
<hr/>			
			\$73,119 80

EXPENDITURES.

Paid Appleton Company abatement after payment.....	4,296	05	
Hamilton M'f'g Co. abatement after payment.....	17,089	50	
Tremont & Suffolk Mills abate- ment after payment.....	12,666	47	
Appleton Company on execu- tion.....	1,389	90	
Hamilton M'f'g Co. on execu- tion.	6,985	08	
Tremont & Suffolk Mills on ex- ecution.....	6,069	19	
<hr/>			
	48,496	19	
Paid sundry persons abatement after payment.....	104	50	
Abated by Assessors before pay- ment.....	23,807	39	
<hr/>			
Balance undrawn Dec. 31, 1904...			72,408 08
			711 72
<hr/>			
			73,119 80

ASSESSORS SALARIES.

Appropriation.....	12,551 00	
	<hr/>	\$12,551 00
		<hr/>

EXPENDITURES

Paid Principal Assessors :

Abel Wheeler.....	2,250 00	
John P. Mahoney.....	2,250 00	
C. Arthur Abbott.....	2,250 00	
	<hr/>	\$6,750 00

Assistant Assessors :

M. Bourdon.....	156 00	
R. Charlton.....	156 00	
T. F. Garvey.....	156 00	
E. T. Goward.....	156 00	
W. J. McCluskey.....	156 00	
Charles Riley.....	156 00	
	<hr/>	936 00

Clerks :

Stephen J. Kirby.....	1,600 00	
William J. Reardon.....	1,200 00	
Charles C. Hartwell.....	345 00	
Harry Lawrence.....	5 00	
Andrew Liddell	331 25	
Eugene Mayrand.....	132 50	
Joseph Meehan.....	285 00	
George Owen.....	345 00	
Frank B. Peabody.....	337 50	
Hazen G. Pillsbury.....	187 50	
	<hr/>	4,768 75

Interpreters :

J. H. Prempas.....	1 50	
Y. Seroithes	50 00	
W. Smith	27 88	
	<hr/>	79 38
		<hr/>
		\$12,534 13

ASSESSORS, SALARIES—Continued.

Transferred to General Treasury Fund	16 87
	<hr/>
	\$12,551 00
	<hr/>

ASSESSORS SUNDRIES

Appropriation.....	\$1,500 00	
	<hr/>	\$1,500 00
		<hr/>

EXPENDITURES.

Blank Books, Stationery, Printing,
etc. :

To Courier-Citizen Co.....	11 75	
Dumas & Co.....	208 75	
Thomas H. Lawler.....	6 05	
Lawler Printing Co.....	834 85	
Lowell Bill Posting Co.	4 00	
Osmond Long.....	5 50	
G. C. Prince & Son	24 75	
Sampson, Murdock & Co.....	12 00	
The Review & Record Co....	5 00	
Wright & Potter Printing Co..	13 00	
	<hr/>	1,125 65

Sundries :

App. School Houses Materials	61	
American Express Co.....	1 00	
John P. Mahoney..	6 00	
N. E. T. & T. Co.....	32	
D. L. Page Co.....	14 00	21 93
		<hr/>
		\$1,147 58

Transferred to General Treasury Fund	352 42
	<hr/>
	\$1,500 00
	<hr/>

AUDITOR, SALARIES.

Appropriation.	\$3,527 00	
		\$3,527 00

EXPENDITURES.

David Chase, Auditor.....	1,800 00	
James T. Dunfey, Clerk.....	942 00	
Clinton P. Tuttle, Clerk.....	785 00	
		\$3,527 00

AUDITOR, SUNDRIES.

Appropriation.	\$730 00	
		\$730 00

EXPENDITURES.

Blank Books, Stationery, Printing,
etc. :

To Buckland Printing Co.....	12 50	
Butterfield Printing Co.....	19 40	
Carter's Ink Co.....	76	
Courier-Citizen Co.....	125 50	
John Crawford	4 50	
Daily Mail Publishing Co....	146 40	
Dumas & Co.....	50 00	
Thomas H. Lawler.....	13 85	
W. C. Olson Mfg. Co.....	2 50	
G. C. Prince & Son	21 10	
Sampson, Murdock & Co....	3 00	
E. T. Tilton.....	3 00	
F. A. M. Tobin.....	32 90	
Amount carried forward.....	435 41	

AUDITORS, SUNDRIES—Continued.

Amount brought forward.....	435 41	
Sundries :		
To American Express Co.....	15	
N. E. T. & T. Co.....	28	
J. H. Sparks.....	5 00	5 43
		<hr/>
		440 84
Transferred to General Treasury Fund		289 16
		<hr/>
		\$730 00
		<hr/>

CITY CLERK, SALARIES.

Appropriation.....	\$4,628 00	
	<hr/>	
		\$4,628 00
		<hr/>

EXPENDITURES.

To Girard P. Dadman, City Clerk	1,800 00	
William P. McCarthy, Asst. City Clerk.....	1,500 00	
Belle C. Hill, Clerk.....	728 00	
Georgia T. Story, Clerk.....	600 00	
	<hr/>	\$4,628 00
		<hr/>

CITY CLERK, SUNDRIES.

Appropriation.....	\$1,241 00	
	<hr/>	
		\$1,241 00
		<hr/>

EXPENDITURES.

Books, Stationery, Printing, etc. :		
To Buckland Printing Co	9 25	
Butterfield Printing Co.....	18 00	
	<hr/>	
Amount carried forward....	\$ 27 25	

CITY CLERK, SUNDRIES—Continued.

Amount brought forward.....	\$ 27 25	
Carter's Ink Co.....	2 25	
Courier-Citizen Co.....	49 25	
G. P. Dadman.....	42 65	
Dumas & Co.....	16 00	
Thomas H. Lawler.....	16 70	
Lawler Printing Co.....	10 10	
Libby Printing Co.....	5 75	
Chas. Littlefield & Co.....	40	
Lowell Bill Posting Co.....	6 00	
Henry M. Meek Publishing Co.	34 00	
G. C. Prince & Son: ...	22 45	
Chas. E. Robinson.....	34 00	
Sampson, Murdock & Co.....	6 00	
Thorp & Martin Co... ..	1 50	
F. A. M. Tobin... ..	8 25	
Union Printing Co.....	71 75	
M. G. Wight & Co... ..	5 50	
		367 55
Telephone and Express:		
To American Express Co.....	2 65	
Manchester & Concord Express		
Co.....	2 90	
N. E. T. & T. Co.....	83	
		6 38
Reporting Births—Enumerators :		
To F. R. Cross.....	12 40	
G. W. Capron.....	18 50	
M. H. Gilroy	20 90	
J. R. Kennedy.....	18 90	
C. R. Kidder.....	14 50	
J. H. Lavallee.....	50 00	
J. E. McCormick.....	18 50	
F. B. Peabody.....	15 10	
Fred N. Tilton.....	25 55	
		194 35
To Sundry Persons, Physicians,		
Nurses.....	488 75	
		683 10
Amounts carried forward.....		\$1,057 03

CITY CLERK, SUNDRIES—Continued.

Amounts brought forward.....		\$ 1,057 03
Sundries :		
To A. M. Harmon.....	6 00	6 00
		<hr/>
		\$1,063 03
Transferred to General Treasury Fund		177 97
		<hr/>
		\$1,241 00
		<hr/>

CITY TREASURER, SALARIES.

Appropriation.....	\$7,340 00	
	<hr/>	
		\$7,340 00
		<hr/>

EXPENDITURES.

To Andrew G. Stiles, City Treas.	2,700 00	
Joseph Farrell, Clerk.....	1,500 00	
Charles C. Wilson, Clerk.....	942 00	
James S. O'Sullivan, Clerk...	942 00	
Minnie Freeman, Clerk.....	628 00	
Kittie Miskella.....	628 00	
	<hr/>	
		\$7,340 00
		<hr/>

CITY TREASURER, SUNDRIES,

Appropriation.....	\$3,460 00	
Additional Appropriations	562 85	
	<hr/>	
		\$4,022 85
		<hr/>

EXPENDITURES.

Books, Stationery, Printing, Adver- tising, etc.:		
To Boston News Bureau... ..	14 00	
Buckland Printing Co.....	147 50	
	<hr/>	
Amount carried forward.....	\$ 161 50	

CITY TREASURER, SUNDRIES—Continued.

Amount brought forward.....	\$ 161 50	
Courier-Citizen Co.....	186 00	
Daily Mail Publishing Co.....	190 00	
Dumas & Co.....	126 50	
Lepine & Co.....	182 00	
Lowell Post Office.....	212 00	
Lowell Sun.....	180 00	
Municipal Journal Publishing Co.....	9 00	
Pneumatic Hand Stamp Co...	3 15	
G. C. Prince & Son	28 55	
Sampson, Murdock & Co.....	6 00	
The Dodge Co	3 75	
The Review & Record Co....	5 00	
Tilton & Co.....	25	
F. A. M. Tobin.....	57 90	
	<hr/>	1,398 45
Writing and Distributing Tax Bills :		
To R. Charlton.....	65 00	
O. J. David	65 00	
E. Gerrish.....	65 00	
E. T. Goward	65 00	
T. J. Johnson.....	65 00	
F. Keefe.....	62 50	
J. Meehan.....	65 00	
R. L. Read.....	65 00	
J. Wright	65 00	
	<hr/>	582 50
Serving Warrants :		
To Daniel Emery,.....	499 00	
Enoch Gerrish.....	782 00	
Charles C. Hartwell.....	15 50	
John McManus	533 00	
G. F. Stiles.....	96 00	
	<hr/>	1,925 50
Amounts carried forward.....		\$ 3,906 45

CITY TREASURER, SUNDRIES—Continued.

Amounts brought forward..... \$ 3,906 45

Sundries :

To H. C. Derby.....	30 00	
Middlesex Registry of Deeds..	7 50	
N. E. T. & T. Co.....	3 90	
E. M. Tucke	75 00	
	<hr/>	116 40
		<hr/>
		\$4,022 85
		<hr/>

CITY MESSENGER, SALARIES.

Appropriation.	\$1,200 00	
	<hr/>	
		\$1,200 00
		<hr/>

EXPENDITURES.

To Joseph E. Pattee, City Mes-		
senger	1,200 00	
	<hr/>	
		\$1,200 00
		<hr/>

CITY MESSENGER, LIGHTING.

Appropriation	\$1,547 86	
Additional Appropriation.....	2 30	
	<hr/>	
		\$1,550 16
		<hr/>

EXPENDITURES.

To Lowell Gas Light Co., City		
Hall.....	326 43	
Lowell Electric Light Corp.,		
City Hall.....	1,127 97	
	<hr/>	
Amount carried forward.		\$ 1,454 40

CITY MESSENGER, LIGHTING—Continued.

Amount brought forward.....		\$ 1,454 40
To Lowell Gas Light Co., Memorial Hall.....	25 38	
Lowell Electric Light Corp., Memorial Hall.....	70 38	
	<hr/>	95 76
		<hr/>
		\$1,550 16

CITY MESSENGER, SUNDRIES.

Appropriation.....	\$400 00	
	<hr/>	
		\$400 00

EXPENDITURES.

Books, Stationery, Printing, etc. :

To Courier-Citizen Co.....	3 00	
J. H. B. Fogg.....	98	
Thomas H. Lawler.....	10 85	
Libby Printing Co.	27 50	
M. C. Olson Mfg. Co.....	2 57	
G. C. Prince & Son.....	138 42	
Sampson, Murdock & Co.....	21 00	
F. A. M. Tobin	9 75	
Tilton & Co	25	
Union Printing Co.....	4 50	
	<hr/>	218 82

Telephone, Transportation and Carriage hire:

To American Express Co.....	20	
B. & M. R. R	20 00	
Manchester & Concord Express Co	15	
N. E. T. & T. Co.....	19 45	
J. F. O'Donnell.....	4 00	
J. H. Sparks	45 50	
	<hr/>	89 30

Amounts carried forward.....		\$ 308 12
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CITY MESSENGER, SUNDRIES—Continued.

Amounts carried forward..... \$ 308 12

Sundries :

To C. B. Coburn Co.....	9 00	
Derby & Morse.....	9 64	
Frye & Crawford.....	85	
H. C. Girard	5 35	
R. A. Griffiths.....	7 00	
R. J. Lang & Co.	1 20	
A. W. Lewis & Co.....	2 00	
O'Donnell Dry Goods Co.....	2 90	
A. G. Pollard & Co.	27 00	
Charles P. Preston.....	5 00	
Smith & Lawrence.....	15 83	
Sterling Brush Co	3 50	
Tucke & Parker.....	2 20	
Thompson Hardware Co.....	30	
		<u>91 77</u>
		<u>399 89</u>
Transferred to General Treasury Fund		11
		<u>\$400 00</u>

CLERK OF COMMON COUNCIL.

Appropriation.....	\$300 00	
		<u>\$300 00</u>

EXPENDITURES.

To Frank M. Dowling, Clerk of Common Council.....	300 00	
		<u>300 00</u>

CLERK OF COMMITTEES, SALARY.

Appropriation.	\$1,200 00	
		<u>\$1,200 00</u>

CLERK OF COMMITTEES,—Continued.

EXPENDITURES.

To Frank M. Dowling, Clerk of Committees	\$1,200 00	
	<hr/>	\$1,200 00

CLERK OF COMMITTEES, SUNDRIES.

Appropriation	\$200 00	
	<hr/>	\$200 00

EXPENDITURES.

Books, Stationery, Printing, etc.:

To Courier-Citizen Co.....	3 25	
Helen A. Dimon	19 60	
Dumas & Co.....	3 00	
B. M. & N. E. Hutchins.....	3 50	
Libby Printing Co.....	26 25	
G. C. Prince & Son.....	13 95	
Chas. E. Robinson	10 25	
Thorpe & Martin Co.....	9 35	
Union Printing Co.....	8 50	
	<hr/>	97 65

Transportation and Carriage hire:

To B. & M. R. R.....	40 50	
Morse Coach Co.....	70	
J. H. Sparks	2 00	
	<hr/>	43 20
		<hr/>
		\$140 85

Transferred to General Treasury

-Fund		59 15
		<hr/>
		\$200 00

CITY SEALER, SALARY.

Appropriation.....	\$350 00	
	<hr/>	
		<u>\$350 00</u>

EXPENDITURES.

To James R. Fulton, City Sealer..	\$350 00	
	<hr/>	
		<u>\$350 00</u>

CITY SEALER, SUNDRIES.

Appropriation.....	\$70 00	
	<hr/>	
		<u>\$70 00</u>

EXPENDITURES.

To Baker Printing Co.....	2 50	
Courier-Citizen Co.....	4 00	
Daily Mail Publishing Co.....	2 00	
Lowell Sun.....	2 00	
James Leach.....	56 15	
	<hr/>	
		66 65
Transferred to General Treasury Fund		3 35
		<hr/>
		<u>\$70 00</u>

POUND KEEPER.

Appropriation.....	\$5 00	
	<hr/>	
		<u>\$5 00</u>

EXPENDITURES.

To O. W. Peabody, Pound Keeper	2 92	
Transferred to General Treasury Fund	2 08	
	<hr/>	
		<u>\$5 00</u>

FISH WARDEN.

Appropriation.....	\$40 00	
		<u>\$40 00</u>

EXPENDITURES.

To Charles W. Swan, Fish Warden	2 04	
George T. Spence.....	37 96	
		<u>40 00</u>

INSPECTOR OF ANIMALS AND PROVISIONS.

Appropriation.....	\$500	
		<u>\$500 00</u>

EXPENDITURES.

To Walter A. Sherman.....	500 00	
		<u>500 00</u>

CITY WEIGHER AND MEASURER, SALARY.

Appropriation.....	\$800 00	
		<u>\$800 00</u>

EXPENDITURES.

To George F. Noonan, City Weigher and Measurer	800 00	
		<u>\$ 800 00</u>

CITY WEIGHER AND MEASURER, SUNDRIES.

Appropriation.....	\$ 25 00	
	<u> </u>	
		\$25 00
		<u> </u>

EXPENDITURES.

To C. B. Coburn Co.....	50	
F. A. M. Tobin.....	18 00	
	<u> </u>	18 50
Transferred to General Treasury Fund		6 50
		<u> </u>
		\$ 25 00
		<u> </u>

INSPECTOR MILK AND VINEGAR, SALARIES.

Appropriation.....	\$2.215 50	
	<u> </u>	
		\$2,215 50
		<u> </u>

EXPENDITURES.

To Thos. O. Allen Inspector.....	1,500 00	
James E. Hill Collector.....	706 50	
	<u> </u>	2,206 50
Transferred to General Treasury Fund		9 00
		<u> </u>
		\$ 2.215 50
		<u> </u>

INSPECTOR OF MILK AND VINEGAR, SUNDRIES.

Appropriation.....	\$200 00	
	<u> </u>	
		\$200 00
		<u> </u>

INSPECTOR OF MILK AND VINEGAR—Continued.

EXPENDITURES.

Printing, Stationery, etc.:

To Courier-Citizen Co.....	3 92	
Daily Mail Publishing Co....	1 00	
Dumas & Co.....	10 75	
B. M. & M. E. Hutchins.....	2 00	
Lowell Sun.....	4 25	
G. C. Prince & Son.....	10 55	
Sampson, Murdock & Co....	3 00	
Union Printing Co.....	31 20	
John Wiley	6 35	
		<hr/>
		\$ 73 02

Laboratory, Supplies;

To Carleton & Hovey.....	6 00	
P. Dempsey & Co.....	2 75	
Eimer & Amend	1 60	
L. E. Knott Apparatus Co....	5 00	
R. J. Lang & Co.....	5 50	
Talbot Dyewood & Chemical.		
Co.....	3 26	
H. E. Webster & Co... . . .	7 56	
		<hr/>
		31 67

Sundries:

To George F. Allen.....	3 60	
Thos. O. Allen.. . . .	12 41	
American Express Co.....	40	
John Cross.....	7 00	
General Electric Co... ..	1 52	
Manchester & Concord Ex. Co	40	
A. G. Pollard & Co.....	3 00	
W. H. Ward & Co.....	5 35	
		<hr/>
		33 68

138 37

Transferred to General Treasury
Fund

61 63

\$ 200 00

INSPECTOR OF WIRES, SALARIES.

Appropriation.....	\$2,128 00	
	<hr/>	
		\$2,128 00

INSPECTOR OF WIRES, SALARIES—Continued.

EXPENDITURES.

To James F. McElholm Inspector of Wires	1,500 00	
Marietta L. McGrath, Clerk...	628 00	
	<hr/>	2,128 00
		<hr/>

INSPECTOR OF WIRES, SUNDRIES.

Appropriation.....	\$500 00	
Receipts.....	09	
Additional Appropriation.	237 65	
	<hr/>	\$737 74
		<hr/>

EXPENDITURES.

Stationery, Printing, etc ;

To Electrical Review.....	6 00	
J. M. Fellows.....	2 25	
Thomas H. Lawler.....	8 70	
Libby Printing Co.....	12 00	
Municipal Journal & Register.	3 00	
G. C. Prince & Son	1 75	
Sampson, Murdock & Co.....	3 00	
	<hr/>	36 70

Transportation and Carriage hire :

To B. & M. R. R.....	60 25	
J. F. O'Donnell & Sons.....	4 00	
	<hr/>	64 25

Repairing Carriages & Harnesses :

Sawyer Carriage Co.....	19 82	
J. H. Sparks.....	59 70	
J. T. Williamson.....	1 00	
	<hr/>	80 52
		<hr/>

Amount carried forward.....		\$ 181 47
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INSPECTOR OF WIRES, SUNDRIES—Continued.

Amount brought forward.....		\$ 181 47
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Keeping and Shoeing Horse :

To Owen J. Carney.....	24 75	
J. H. Sparks.....	222 97	
	<hr/>	247 72

Sundries :

To App. School Houses, Labor..	183 42	
J. F. McElholm.....	61 25	
Marion.....	50 00	
Tucke & Parker.....	8 88	
Waverly Hotel	5 00	
	<hr/>	308 55

	<hr/>	\$ 737 74
	<hr/>	

MAYOR, SALARIES.

Appropriation.....	\$4,200 00	
	<hr/>	\$4,200 00
		<hr/>

EXPENDITURES.

To Charles E. Howe, Mayor.....	3,000 00	
Edwards Cheney, Secretary...	1,200 00	
	<hr/>	\$4,200 00
		<hr/>

MAYOR, SUNDRIES.

Appropriation.	\$ 400 00	
	<hr/>	\$ 400 00
		<hr/>

MAYOR, SUNDRIES—Continued.

EXPENDITURES.

Blank Books, Stationery, Printing,
etc. :

To Baker Printing Co.....	31 05	
Courier-Citizen Co.....	6 00	
J. M. Fellows.....	75	
Osmond Long.....	7 50	
Lowell Daily Mail.....	3 00	
Lowell Sun.....	6 00	
Municipal Engineering Co.....	2 00	
Municipal Journal Publishing Co.....	3 00	
G. C. Prince & Son.....	20 35	
Sampson, Murdock & Co.....	3 00	
Smith Premier Typewriter Co.....	22 35	
Union Printing Co.....	4 50	
		109 50

Telephone, Transportation, Car-
riage hire, etc :

To American Express Co.....	25	
B. & M. R. R.....	20 25	
G. W. Chapman.....	6 00	
Morse Coach Co.	3 00	
N. E. T. & T. Co.....	84	
J. H. Sparks	10 40	
Western Union Tel. Co.....	98	
		41 72

Sundries :

To Clarence H. Raymond.....	35 00	
		35 00
		\$186 22
Transferred to General Treasury Fund		213 78
		400 00

MAYOR, STENOGRAPHY AND EXTRA CLERK HIRE.

Appropriation.....	\$200 00	
		<u>\$200 00</u>

EXPENDITURES.

To Francis E. Andrews.....	4 00	
B. M. & M. E. Hutchins.....	3 25	
	<u>7 25</u>	
Transferred to General Treasury Fund		192 75
		<u>\$200 00</u>

REGISTRARS OF VOTERS, SALARIES.

Appropriation.....	\$3,000 00	
Additional Appropriation.....	450 00	
	<u>\$3,450 00</u>	

EXPENDITURES

Board of Registrars :

To Girard P. Dadman	550 00	
John P. Farley.....	550 00	
Albert J. Blazon.....	550 00	
Cornelius F. Sullivan.....	550 00	
	<u>2,200 00</u>	

Clerks :

To Frank Cross.....	12 50	
Harry P. Farley.....	365 00	
M. J. Fletcher.....	55 00	
J. C. King.....	87 50	
Waldo F. Miles.....	20 00	
F. B. Peabody.....	45 00	
H. G. Pillsbury.....	5 00	
Arthur Salmon.....	12 50	
	<u>602 50</u>	
Amounts carried forward.....	602 50	\$2,200 00

REGISTRARS OF VOTERS, SALARIES—Continued.

Amounts brought forward.....	\$ 602 50	\$ 2,200 00
J. Sullivan	80 00	
Fred N. Tilton.....	378 75	
	<hr/>	1,061 25
		<hr/>
		\$3,261 25
Transferred to General Treasury Fund		188 75
		<hr/>
		\$3,450 00
		<hr/>

REGISTRARS OF VOTERS, SUNDRIES.

Appropriation.....	\$,1000 00	
Additional Appropriation.....	350 00	
	<hr/>	1,350 00
		<hr/>

EXPENDITURES.

Printing, Posting, etc. :

To Butterfield Printing Co.....	12 50	
Courier-Citizen Co.....	455 75	
Dumas & Co.....	44 50	
Lowell Bill Posting Co.	51 00	
Lawler Printing Co.....	5 00	
Osmond Long	30 60	
Union Printing Co.....	58 18	
	<hr/>	657 53

Books, Stationery, etc. :

G. C. Prince & Son.....	1 55	
Charles S. Proctor.....	64 77	
Sampson, Murdock & Co.....	6 00	
Tilton & Co.....	1 50	
	<hr/>	73 82

Sundries :

To Charles F. Bradley.....	10 44	
Helen A. Dimon.....	19 00	
	<hr/>	
Amounts carried forward.....	29 44	\$ 731 35

REGISTRARS OF VOTERS, SUNDRIES—Continued.

Amounts brought forward.....	29 44	\$ 731 35
D. L. Page Co.....	24 47	
J. H. Sparks	3 00	
Waverly Hotel.....	36 00	
	<hr/>	92 91
		<hr/>
		824 26
Transferred to General Treasury Fund		525 74
		<hr/>
		\$1,350 00
		<hr/>

CARE OF CITY HALL, LABOR.

Appropriation.	\$5,325 00	
	<hr/>	
		\$5,325 00
		<hr/>

EXPENDITURES.

To Sundry Persons for Labor.	5,325 00	
	<hr/>	
		5,325 00
		<hr/>

CARE OF CITY HALL, POLICE OFFICER

Appropriation.	\$1,006 50	
	<hr/>	
		\$1,006 50
		<hr/>

EXPENDITURES.

Appropriation for Police, Salaries and Labor, Services of Officers	1,006 50	
	<hr/>	
		1,006 50
		<hr/>

CARE OF CITY HALL, SUNDRIES.

Appropriation.....	\$900 00	
		<u>\$900 00</u>

EXPENDITURES.

Repairs on Furniture, Fixtures, etc. :

To Adams & Co.....	21 25	
H. R. Barker Mfg. Co.....	2 15	
Derby & Morse	61 75	
George H. Gage	39 00	
Alvin Lawrence.....	51 00	
A. W. Lewis & Co.....	6 12	
Welch Bros.....	62 85	
		<u>244 12</u>

Hardware, etc. :

To H. C. Girard	10 30	
W. A. Mack & Co.....	9 00	
Smith & Lawrence	1 25	
Thompson Hardware Co.....	8 20	
		<u>28 75</u>

Decorations :

To R. A. Griffiths.....	15 00	
Whittet & Co.....	18 00	
		<u>33 00</u>

Furniture, Carpets, etc. :

To J. H. Burns	28 25	
Gookin Bros.....	20 50	
J. S. Hastings.....	17 09	
H. E. Webster & Co.....	29 25	
		<u>95 09</u>

Cleaning Supplies :

To F. M. Bill & Co.....	1 80	
C. B. Coburn Co.....	15 00	
John P. Curley.....	3 00	
W. P. Foye	5 00	
India Alkali Works.....	27 54	
Kelty Bros.....	3 80	
		<u>56 14</u>

Amounts carried forward.....	56 14	\$ 400 96
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CARE OF CITY HALL, SUNDRIES—Continued.

Amounts brought forward.....	56 14	\$ 400 96
A. L. Kittredge & Co.....	14 85	
W. W. Morrison.....	7 50	
John McCullough.....	9 00	
O'Brien Bros.....	8 75	
G. C. Prince & Son.....	7 50	
Simpson & Rowland.....	5 90	
Talbot Dyewood & Chemical Co.....	48	
	<hr/>	110 12

Sundries :

App. for Water Works.....	184 56	
“ “ Parks, Sundries.....	12 49	
Bon Marche.....	7 50	
Conway Transfer Co.....	25	
John Cross	1 00	
Daniel Gage	118 38	
Greenwood Bros.....	6 00	
George E. Hutchins.....	17 55	
W. A. Ingham Co.....	4 50	
C. F. Morse.....	6 82	
O'Brien Bros	1 20	
O'Donnell & Gilbride Co.....	28 67	
	<hr/>	388 92
		<hr/>
		\$900 00
		<hr/>

CITY CEMETERIES.

Appropriation.....	\$9,000 00	
	<hr/>	
		\$9,000 00
		<hr/>

EXPENDITURES.

To Charles A. Wotton, Supt....	1,199 96	
Sundry Persons for Labor....	5,377 31	
	<hr/>	
Amount carried forward.....		6,577 27

CITY CEMETERIES, SUNDRIES—Continued.

Amonnt brought forward.....		\$ 6,577 27
Water, Lighting, Telephone :		
App. for Water Works.....	147 58	
Lowell Gas Light Co.....	63	
N. E. Tel. & Tel. Co.....	2 38	
	<hr/>	150 59
Hardware, Tools, etc. :		
To Adams Hardware & Paint Co.	10 65	
F. W. Cheney & Co.....	90	
E. P. Flanders & Co.....	58 79	
Thompson Hardware Co	29 32	
	<hr/>	99 66
Pipe Fittings, etc. :		
To H. R. Barker Mfg. Co.....	49 12	
Boutwell Bros.....	3 03	
City Iron Foundry	30 00	
Harry S. Drury.....	56 25	
Charles E. Gee.....	8 80	
Charles Hanchett & Co.....	1 50	
Charles F. Kappler.....	19 85	
George O'Malley.....	2 71	
I. C. Perkins.....	3 00	
Union Iron Foundry.....	90 00	
Welch Bros.....	30 52	
	<hr/>	294 78
Painters' Supplies :		
To Adams Hardware & Paint Co..	145 14	
	<hr/>	145 14
Plants, Shrubs, etc. :		
To Charles R. Fish & Co.....	235 00	
Marshall	102 60	
James Walsh.....	70 00	
Whittett & Co	6 50	
	<hr/>	414 10
Shoeing Horse :		
To A. D. Mitten.....	28 28	
	<hr/>	28 00
Hay, Grain, etc. :		
To H. E. Noyes & Son.....	65 78	
O. D. Wilder.....	28 50	
	<hr/>	94 28
Amount carried forward.....		<hr/> \$ 7,803 82

CITY CEMETERIES, SUNDRIES—Continued.

Amount brought forward.....		\$ 7,803 82
Fuel, etc :		
To Lowell Coal Co.....	19 65	
Wholey Coal Co	14 00	
	<hr/>	33 65
Manure, Loam etc. :		
To Thomas Egan	133 92	
E. P. Flanders & Co.....	35 00	
John F. Mahoney.....	14 00	
D. J. Murphy.....	108 00	
M, Murphy.....	85 00	
Joseph Tremblay.....	7 50	
Whitman & Pratt Rendering Co	38 00	
Cora J. Wilson.....	14 40	
	<hr/>	435 82
Carriages, Harnesses etc. :		
To A. L. Butman....	22 25	
F. B. Hill & Co.....	46 90	
C. F. Kappler	2 25	
	<hr/>	71 40
Stationery, Printing etc. :		
To Daily Mail Publishing Co.....	2 50	
Thomas H. Lawler	60	
G. C. Prince & Son.....	37 40	
Sampson, Murdock & Co.....	3 00	
Smith Premier Typewriter Co	87 75	
Union Printing Co.....	41 75	
	<hr/>	173 00
Sundries :		
To Warren A. Bishop.....	1 90	
Gustaf Carlson	2 20	
B. L. Dutton	9 05	
Gumb Bros.....	102 00	
John S. Haynes	30 00	
Lowell Wall Paper Co.....	5 25	
P. T. McMahon.....	28 00	
	<hr/>	
Amounts carried forward.....	178 40	\$8,517 69

CITY CEMETERIES, SUNDRIES—Continued,

Amounts brought forward.....	\$ 178 40	\$ 8,517 69
A. F. Storey & Co	54	
Charles A. Wotton	275 00	
	<hr/>	453 94
		<hr/>
		8,971 63
Transferred to General Treasury Fund.....		28 37
		<hr/>
		\$ 9,000 00
		<hr/>

ELECTIONS.

Appropriation.....	\$6,500 00	
Additional Appropriation.....	7,000 00	
	<hr/>	
		\$13,500 00
		<hr/>

EXPENDITURES.

To Sundry Persons, Services as Election Officers.....	7,552 00	
Sundry Persons for Labor....	972 04	
App. Public Buildings Labor,	66 02	
	<hr/>	8,590 06
Clerks :		
To F. R. Cross.....	207 50	
H. K. Gates.....	7 50	
H. Hoole.....	2 50	
J. P. Farley	15 00	
F. B. Peabody.....	112 50	
Arthur Salmon	95 00	
	<hr/>	440 00
Repairing Ballot Boxes :		
To C. F. Hatch Co.....	94 50	
Charles L. Littlefield & Co ..	23 70	
	<hr/>	118 20
		<hr/>
Amount carried forward... ..		\$ 9,148 26

ELECTIONS—Continued.

Amount brought forward \$9,148 26

Hardware, etc. :

To Adams Hardware & Paint Co.	11 25	
Carroll Bros.....	22 30	
E. J. Carroll & Co.....	22 32	
F. W. Cheney & Co.....	1 25	
E. P. Flanders & Co.....	56 25	
H. C. Girard.....	2 40	
Thompson Hardware Co.....	2 13	
		<hr/>
		117 90

Stationery and Typewriting :

To G. P. Dadman.....	40 00	
Helen A. Dimon.....	60 70	
Dumas & Co.....	29 00	
B. M. & M. E. Hutchins.....	49 61	
H. C. Kittredge.....	45	
T. H. Lawler.....	42 35	
G. C. Prince & Son....	45 65	
C. S. Proctor.....	124 32	
		<hr/>
		392 08

Printing, Posting, etc. :

To Baker Printing Co.....	41 00	
Buckland Printing Co.....	6 75	
Butterfield Printing Co.....	1,506 15	
Courier-Citizen.....	171 60	
Daily Mail Corp.....	42 00	
Lawler Printing Co.....	3 10	
Labor Journal.....	12 00	
Lepine & Co.....	12 60	
Libby Printing Co.....	55 05	
Charles Littlefield & Co.....	32 00	
Lowell Bill Posting Co.....	5 00	
Lowell Sun.	33 00	
Lowell Labor Journal.....	12 00	
Charles E. Robinson.....	58 50	
Saturday Free Press.....	24 00	
Sunday Telegram.....	22 95	
F. A. M. Tobin.....	19 25	
Union Printing Co.....	478 00	
		<hr/>
		2,534 95

Amount carried forward. \$12,193 19

ELECTIONS—Continued.

Amount brought forward..... \$12,193 19

Fuel:

To John Brady	32 00	
W. T. Griffin.....	22 00	
Frank Relly.....	3 25	
		<hr/> 57 25

Teaming, Carriage hire, etc.:

To Thomas Casey.....	9 00	
Conway Transfer Co.	156 50	
C. H. Hanson & Co.....	57 25	
Ed. Judge	50	
T. G. Little.....	58 00	
S. T. Moses.....	12 00	
Morse Coach Co.	5 00	
S. W. Parker.....	16 00	
O. F. Prentiss.....	28 00	
M. Reynolds.	20 00	
R. E. Richardson.....	10 50	
J. H. Sparks	17 50	
John Sullivan.....	20 00	
		<hr/> 410 25

Care of Ward Rooms:

To O. W. Brown.....	12 75	
John J. Carr.....	3 00	
John H. Hallett....	2 00	
P. F. Hannafin.....	3 00	
Dennis Harrington.....	4 00	
Timothy Harrington.....	4 00	
Wm. Kennedy.....	2 75	
P. J. Mahoney.....	12 00	
H. L. Morgan.....	2 00	
John McCarty	2 51	
Omer Smith....	13 33	
Wm. H. Stafford.....	2 00	
Chas. Thurston.....	1 00	
Luke Veo.....	1 00	
		<hr/> 65 34

Amount carried forward..... \$ 12,726 03

ELECTIONS—Continued.

Amount brought forward.		\$12,726 03
Rent :		
To H. F. Felton, Agent.	15 00	
C. F. Keyes.	20 00	
Julia McCarty.	75 00	
Mechanics Savings Banks.	75 00	
Percy Parker.	100 00	
	<hr/>	285 00
Sundries :		
To J. W. Bennett Co.	50	
S. J. Bigelow.	49 51	
C. F. Bradley.	9 28	
C. B. Coburn Co.	46 32	
Alfred C. Cook.	20 63	
D. J. Giroux.	12 38	
Michael Mullin.	8 00	
A. McCloughry.	30 25	
O'Donnell & Gilbride Co.	30 00	
D. L. Page Co.	33 25	
Chas. R. Preston.	30 00	
W. H. Spaulding & Co.	2 50	
Spencer & Co.	14 60	
Waverly Hotel.	4 00	
	<hr/>	291 22
Transferred to General Treasury Fund		197 75
		<hr/>
		\$13,500 00
		<hr/>

STATE SUPERVISORS.

Balance undrawn Jan. 1, 1904.	136 00	
Additional Appropriation.	864 00	
	<hr/>	\$1,000 00
		<hr/>

EXPENDITURES.

To Sundry Persons for Services.	824 00	
Balance undrawn Dec. 31, 1904.	176 00	
	<hr/>	\$1,000 00
		<hr/>

ENGINEERING.

Appropriation.....	\$7,500 00	
Receipts from Sundry Departments,	7,755 12	
	<hr/>	\$15,255 12

EXPENDITURES.

To George Bowers, City Engineers	2,700 00	
Sundry Persons, Assistants....	11,877 60	
	<hr/>	14,577 60
Carriages, Harnesses and Repairs:		
To C. H. Hanson & Co.....	50 00	
F. B. Hill & Co.....	37 80	
Sawyer Carriage Co.....	44 20	
	<hr/>	132 00
Books, Stationery, Printing, etc.:		
To Buckland Printing Co... ..	3 50	
J. D. Bartley.....	75	
W. B. Clark Co.....	2 25	
Courier-Citizen Co.....	3 00	
Engineering News.Pub. Co...	2 00	
Engineering Record.....	3 00	
Thos. H. Lawler.....	50	
Municipal Engineering Co....	2 00	
Municipal Journal Pub. Co...	3 00	
G. C. Prince & Son	55 00	
Frederick Post Co.....	11 68	
Sampson, Murdock & Co.....	13 20	
F. A. M. Tobin.....	3 50	
Geo. H. Walker & Co	10 00	
Tilton & Co.....	65	
	<hr/>	114 03
Telephone, Transportation, etc.:		
To American Express Co.	7 07	
B. & M. R. R.....	20 25	
N. E. T. & T. Co.....	25 07	
N. Y. & B. Des. Ex. Co.....	90	
N. Y., N. H. & H. R. R ...	35	
J. H. Sparks	13 00	
	<hr/>	66 64
Amount carried forward		\$14,890 27

ENGINEERING—Continued.

Amount brought forward..... \$14,890 27

Sundries :

To Adams Hardware & Paint Co.	1 00	
George Bowers.....	29 25	
Concord Drug Store.....	1 20	
W. W. Carey.....	6 80	
Derby & Morse	4 80	
Helen A. Dimon.....	2 00	
Eugene Dritzgen Co.....	12 18	
Frye & Crawford.....	10	
H. C. Girard	80	
A. L. Kittredge & Co.....	11 55	
F. M. Lazelle.....	12 00	
Chas. E. Moss	2 40	
J. S. Mason & Co.....	30 10	
Riehle Bros. Testing Machine Co.....	15 30	
Rice & Co.....	1 00	
E. G. Soltman.....	2 70	
W. H. Spaulding & Co	6 75	
Thompson Hardware Co.....	3 25	
		143 18
		15,033 45
Transferred to General Treasury Fund		221 67
		\$15,255 12

FIRE DEPARTMENT, SALARIES AND LABOR.

Appropriation	\$106,956 50	
Additional Appropriation.....	3,000 00	
		\$109,956 50

FIRE DEPT'T. SALARIES AND LABOR—Continued.

EXPENDITURES

To Edward S. Hosmer, Chief		
Engineer	2,000 00	
James F. Norton, Asst. Eng'r.	1,500 00	
H. W. Burton " "...	366 68	
Edward Meloy " "...	400 01	
Geo. F. Salmon " "...	400 01	
	<hr/>	4,666 70
Call Fireman	21,374 68	
Permanent Firemen.....	83,812 85	
	<hr/>	109,854 23
Transferred to General Treasury		
Fund		102 27
		<hr/>
		\$109,956 50
		<hr/>

FIRE DEPARTMENT, SUNDRIES.

Appropriation.	\$24,835 00	
Receipts from App. Fire Dept. un-		
derground wires.....	185 33	
	<hr/>	\$25,020 33
		<hr/>

EXPENDITURES.

Fuel:		
To John Brady	12 00	
John T. Brennan	3 00	
Edward Cawley.....	688 35	
Lowell Coal Co.....	1,945 48	
George Lynch	10 00	
Frank Reilly	12 00	
D. T. Sullivan.....	237 38	
	<hr/>	2,908 21
Hay, Grain, etc. :		
To Ame & Co.....	25 00	
A. M. Blackie	192 56	
	<hr/>	
	\$ 217 56	
Amount carried forward.....		\$ 2,908 21

FIRE DEPARTMENT, SUNDRIES—Continued.

Amount brought forward.....	\$217 56	\$ 2,908 21
J. B. Cover & Co.....	340 99	
C. H. Cutter.....	35 16	
Charles Dumas & Co.....	76 35	
George M. Foster.....	1,280 59	
W. P. Foye & Co.....	6 40	
Fred E. Jones.....	372 70	
Lowell Coal Co.....	282 06	
Joseph Marin.....	245 67	
T. J. McDonald.....	328 40	
Joseph Mullin.....	771 90	
H. E. Noyes & Son.....	1,555 38	
D. A. Reardon.....	49 44	
Fred H. Rourke.....	176 37	
Paul Vigeant & Co.....	1,173 98	
O. D. Wilder.....	114 76	
	<hr/>	7,027 71
Horses and Use of Horses :		
To C. H. Hanson & Co.....	2,320 57	
D. D. Libby.....	64 00	
	<hr/>	2,384 57
Water, Lighting and Telephone :		
App. Water Works.....	420 05	
Lowell Electric Light Corp...	338 46	
Lowell Gas Light Co.....	1,525 00	
N. E. T. & T. Co.....	254 81	
	<hr/>	2,538 32
Shoeing Horses :		
To R. R. Armitstead.....	30 06	
E. P. Bryant.....	30 40	
L. D. Butters.....	32 50	
James Blakely.....	113 75	
M. J. Cahill.....	107 00	
Cahill Bros.....	54 60	
Owen J. Carney.....	90 00	
John H. Collins.....	9 50	
C. Desmond.....	313 20	
J. J. Donnelly.....	133 80	
Q. A. Foster.....	35 48	
	<hr/>	
	\$ 950 29	
Amount carried forward... ..		\$ 14,858 81

FIRE DEPARTMENT, SUNDRIES—Continued.

Amount brought forward.....	\$950 29	\$14,858 81
M. V. B. Libbey & Co.....	113 40	
A. D. Mitten.....	161 96	
George R. Morse	18 35	
A. Parsons	145 58	
Henry Reynolds.....	40 75	
S. A. Shattuck.....	37 25	
C. H. Ward.....	49 25	
J. T. Williamson.....	102 05	
	<hr/>	1,618 88
Carriages, Harnesses and Repairs :		
To Robert Barris.....	99 50	
A. L. Butman.....	76 20	
E. P. Bryant	109 43	
A. H. Cluer	29 95	
Donovan Harness Co.....	210 45	
G. K. Hammond.....	9 50	
C. H. Hanson & Co.....	62 50	
F. B. Hill & Co.....	639 60	
J. H. Laporte.....	161 40	
H. J. O'Dowd.....	12 00	
D. W. Parker.....	7 55	
C. N. Perkins & Co.....	21 75	
Sawyer Carriage Co	843 32	
D. C. Stanley.....	16 20	
J. H. Swett.....	119 53	
Geo. H. Taylor.....	6 75	
H. W. Tinker.....	1 15	
	<hr/>	2,426 78
Lumber :		
To Burham & Davis Lumber Co..	5 26	
Pratt & Forrest.....	10 08	
	<hr/>	15 34
Hardware, etc. :		
To W. T. S. Bartlett	13 21	
Boutwell Bros.....	29 30	
Owen E. Brennan.....	2 01	
F. W. Cheney & Co.....	7 25	
E. P. Flanders & Co.....	5 25	
	<hr/>	
	\$ 57 02	
Amount carried forward.....		\$ 18,919 81

FIRE DEPARTMENT, SUNDRIES—Continued.

Amounts brought forward.....	\$57 02	\$18,919 81
H. C. Girard	50	
S. F. Hayward & Co.....	18 35	
N. D. Lafleur.....	90	
W. A. Mack & Co.....	105 03	
Smith & Lawrence	3 48	
Thompson Hardware Co.....	67 83	
		253 11
Pipe Fittings, Hose and Repairs :		
To Adams Hardware & Paint Co.	48 50	
American Locomotive Co.....	29 50	
E. Badger & Sons Co.....	3 00	
James M. Baker.....	12 00	
H. R. Barker Mfg. Co.....	256 17	
Cornelius Callahan	1,727 80	
Carroll Bros.....	7 10	
Wm. H. Hope & Co.....	50	
Geo. E. Hutchins	8 70	
D. Lovejoy & Son.....	11 75	
Middlesex Machine Co.....	4 00	
A. F. Nichols.....	4 95	
Scovil Mfg. Co.....	18 00	
Rochester Machine Screw Co.	71 84	
Union Brass Foundry	18 28	
D. H. Wilson & Co	12 40	
Welch Bros.....	23 10	
		2,257 59
Painters and Electricians Supplies :		
To Adams Hardware & Paint Co.	2 75	
Boston Electric Co.	6 70	
F. W. Cheney & Co.....	2 00	
C. B. Coburn Co	268 59	
W. E. Decrow.....	39 00	
Derby & Morse.....	78 42	
Heaney Mfg. Co	48 00	
Willard W. Morrison..	15 00	
Smith & Lawrence.....	12 81	
Tucke & Parker.....	13 92	
		487 19
Amounts carried forward.....		\$ 21,917 70

FIRE DEPARTMENT, SUNDRIES—Continued.

Amount brought forward..... \$ 21,917 70

Stable Supplies :

To Auburn Brush & Mop Co....	15 00
Adams Hardware & Paint Co.	4 50
F. M. Bill & Co.	17 30
Cornelius Callahan Co.....	36 00
Charles E. Carter.....	5 50
Walter Coburn & Co.....	53 00
Continental Brush Co	105 00
P. Dempsey & Co.....	2 75
Thomas Garvey.....	18 00
C. I. Hood & Co.....	7 00
W. A. Ingham Co.....	5 75
Lowell Rendering Co.....	43 20
Lowell Rubber Co.	5 33
National Sponge & Chamois Co.....	136 04
Simpson & Rowland.....	33 80
Talbot Dye. & Chemical Co...	48 06
Whitman & Pratt Rendering Co.....	13 20

549 43

Furniture, Bedding, etc. :

To Bon Marche.....	65 40
P. J. Custy & Co... ..	2 75
Gilbride's.....	5 00
Gookin Bros.....	36 00
Greenwood Bros.....	3 00
E. Hapgood & Son.....	62 72
James T. Henry & Co	8 50
J. S. Hastings.....	3 75
Lowell Wall Paper Co.....	4 00
H. C. McOsker.....	49 99
R. T. Mower.....	5 00
O'Donnell & Gilbride Co.....	60 50
O'Donnell Dry Goods Co.....	23 50
A. E. O'Heir & Co.....	27 00
A. G. Pollard & Co.....	36 60
Robertson & Co.....	20 25

413 96

Amount carried forward.....

\$ 22,881 09

FIRE DEPARTMENT, SUNDRIES—Continued.

Amount brought forward		\$22,881 09
Laundering :		
To Scripture's Laundry.....	119 12	
	<hr/>	119 12
Stationery, Printing, etc. :		
To J. Harry Boardman.....	18 00	
Buckland Printing Co.....	5 00	
Courier-Citizen Co.....	61 50	
Lawler Printing Co.....	98 00	
G. C. Prince & Son.....	19 40	
Sampson, Murdock & Co.....	3 00	
Tilton & Co	67	
F. A. M. Tobin.....	35 00	
Union Printing Co.....	4 00	
	<hr/>	244 57
Veterinary :		
To A. W. Baker.....	70 00	
J. G. Lesure.....	35 00	
C. E. Munn.....	2 00	
W. A. Sherman.....	17 50	
J. H. Sparks.....	127 00	
Jesse A. Viles	2 00	
	<hr/>	253 50
Transportation, Carriage hire, etc. :		
To American Express Co.....	8 90	
B. & M. R. R.....	20 50	
Man. & Concord Express Co..	1 70	
N. Y. & B. Des. Express Co..	6 70	
N. Y., N. H. & H. R. R....	1 75	
J. H. Sparks	5 00	
	<hr/>	44 55
Sundries :		
To F. M. Bill & Co.....	158 50	
Bon Marche.....	15 60	
Boston Belting Co.....	12 19	
C. G. Braxmar Co.....	12 00	
Carleton & Hovey.....	2 00	
C. H. Cutter.....	54 26	
	<hr/>	\$ 254 55
Amounts carried forward.....		\$ 23,542 83

FIRE DEPARTMENT, SUNDRIES—Continued.

Amounts brought forward.....	\$254 55	\$23,542 83
Peter Davey.....	9 00	
J. Albert Evans.....	9 25	
John Ferris.....	1 20	
Josiah Gates & Sons.....	2 08	
Mrs. W. H. Gibson.....	15 00	
H. L. Gonzales.....	1 00	
C. H. Hanson & Co.....	75	
S. B. Harmon.....	3 00	
E. S. Hosmer.....	85 50	
J. W. Jantzen.....	1 30	
F. W. Jenness.....	88 00	
A. L. Kittredge & Co.....	2 70	
A. Ivan Laughton.....	5 50	
Alvin Lawrence.....	7 00	
Middlesex Co.....	191 53	
T. J. McDonald.....	8 50	
McKissock Steam Carpet Clean- ing Works.....	13 74	
James Murkland & Son.....	19 50	
New Departure Bell Co.....	20 00	
A. F. Nichols.....	2 19	
O'Brien Bros.....	7 30	
C. N. Perkins & Co.....	39 45	
Pratt & Forrest.....	35	
F. E. Putnam.....	60 50	
Harry Raynes.....	50	
A. H. Sanborn & Co.....	20 00	
J. H. Sparks.....	28 43	
Waverly Hotel.....	9 00	
		907 02
		24,449 85
Transferred to General Treasury Fund.....		570 48
		\$25,020 33

UNDERGROUND WIRES, FIRE DEPARTMENT.

Appropriation.....	\$2,000 00	
		<u>\$2,000 00</u>

EXPENDITURES.

App. Fire Department Sundries...	185 33	
H. R. Barker Mfg. Co.....	44 99	
W. E. Declow.....	412 50	
E. P. Flanders & Co.....	5 00	
Farrell & Conaton	11 52	
N. E. T. & T. Co.....	642 68	
N. Y., N. H. & H. R. R	9 65	
		<u>1,311 67</u>
Balance undrawn Dec. 31, 1904...		<u>688 33</u>
		<u>\$2,000 00</u>

HEALTH OFFICE, SALARIES AND LABOR.

Appropriation.....	\$9,161 25	
		<u>\$9,161 25</u>

EXPENDITURES.

Board of Health:		
To Guy Holbrook.....	143 06	
William B. Jackson.....	500 00	
John H. McGuinness	125 00	
William C. Doherty	375 00	
Leonard Huntress	356 94	
		<u>1,500 00</u>
Agent:		
To Horace H. Knapp.....	1,830 00	
		<u>1,830 00</u>
Amounts carried forward.....		<u>\$3,300 00</u>

HEALTH OFFICE, SALARIES AND LABOR—Continued.

Amounts brought forward.....		\$ 3,330 00
Clerk :		
To Katherine M. Snow.....	628 00	
		<hr/> 628 00
Bacteriologist :		
To Thomas B. Smith.....	600 00	
		<hr/> 600 00
Inspectors :		
To F. A. Bates.....	1,281 00	
W. H. Connors.....	1,020 50	
J. M. Farrell.....	156 00	
Stephen Garrity.....	1,099 00	
F. J. O'Hare.....	1,020 50	
		<hr/> 4,577 00
		<hr/> 9,135 00
Transferred to General Treasury Fund		26 25
		<hr/> \$9,161 25
		<hr/>

HEALTH OFFICE, SUNDRIES.

Appropriation.....	\$2,200 00	
Additional Appropriation.....	245 56	
Receipts, App. Health Small Pox..	42 85	
City of Worcester.....	18 57	
Town of Chelmsford.....	114 28	
		<hr/>
		\$2,621 26
		<hr/>

EXPENDITURES.

Professional Services :		
To W. A. Johnson	417 00	
E. J. Livingston	68 00	
Louis A. Olney.....	200 00	
T. B. Smith.....	202 50	
		<hr/> 887 50
Amount carried forward.....		<hr/> \$ 887 50

HEALTH OFFICE, SUNDRIES—Continued.

Amount brought forward..... \$ 887 50

Hospitals :

To Lowell Hospital Association...	490 49	
	<hr/>	490 49

Stationery, Printing and Advertising :

To Buckland Printing Co.....	8 50	
Carter's Ink Co	1 14	
Courier-Citizen Co	66 08	
Daily Mail Publishing Co.....	1 00	
Dumas & Co... ..	2 75	
C. F. Hatch & Co.....	5 00	
Journal of Medical Research.	4 00	
Lowell Sun.....	3 75	
Libby Printing Co.....	246 74	
Lawler Printing Co.....	22 20	
Thomas H. Lawler.....	13 48	
Library Bureau.	4 50	
Lyon Platinum Pen Co.....	6 00	
Municipal Engineering Co....	2 00	
Municipal Journal and Engineer	3 00	
Municipal Journal Publishing		
Co	5 15	
W. C. Olson Mfg. Co.....	2 57	
G. C. Prince & Son	15 64	
Sampson, Murdock & Co.....	6 00	
Tilton & Co.....	30	
F. A. M. Tobin.....	14 00	
Wm. Woods Co.....	2 25	
	<hr/>	436 05

Laboratory Supplies :

To Adams Hardware & Paint Co.	13 21
Otis Allen & Son	5 00
H M. Alexander & Co.....	72 50
Amyl Kijo Chemical Co.....	8 80
Bausch & Lomb Optical Co...	17 50
Charles E. Carter.	4 45
C. B. Coburn Co.....	2 50
P. Dempsey & Co.....	27 50
Eimer & Amend.....	8 77

Amounts carried forward.....	\$160 23	\$1,814 04
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HEALTH OFFICE, SUNDRIES—Continued.

Amounts brought forward.....	\$160 23	\$1,814 04
Ellingwood & Co.....	49	
John R. Fallon	4 50	
Keefe Bros.....	2 40	
R. J. Lang & Co....	2 45	
Frank E. McNabb	16 85	
Talbot Dye & Chemical Co...	33 55	
H. E. Webster Co.....	6 84	
	<hr/>	227 31
Transportation, Carriage hire, etc.:		
To American Express Co.....	9 95	
B. & M. R. R.....	20 00	
Man. & Con. Express Co.....	20	
N. Y. & B. Des. Express Co.	1 20	
J. H. Sparks.....	2 00	
	<hr/>	33 35
Telephone:		
To N. E. T. & T. Co.....	13 95	
	<hr/>	13 95
Sundries:		
App. Lowell City Hospital Pro-		
visions.....	14 60	
App. School Houses Labor.....	11 51	
Otis Allen & Son.....	5 00	
F. A. Bates.....	10 80	
J. S. Brooks.....	2 24	
John Brady.....	2 00	
City of Worcester	37 14	
C. B. Coburn Co.....	10	
Connors Bros.....	75 00	
John Callaghan.....	1 60	
Stephen Garrity.....	3 44	
John F. Henley.....	8 00	
J. D. Henry.....	1 25	
Harry C. Kittredge.....	1 25	
H. H. Knapp	68 25	
Lowell Coal Co.....	35 18	
Mass. Association Board of		
Health.....	8 00	
Joseph Mullin.....	14 00	
	<hr/>	
Amounts carried forward.....	\$299 36	\$2,088 65

HEALTH OFFICE, SUUDRIES—Continued.

Amounts brought forward.....	\$299 36	\$2,088 65
W. A. Mack & Co.....	14 25	
O'Sullivan Bros. Co	2 50	
Manuel Perry.....	3 00	
John Ryan.....	175 00	
Rose Scott.....	12 50	
Spencer & Co.....	20 00	
W. A. Sherman.	3 00	
T. A. D. Sullivan & Co.....	3 00	
		<hr/> 532 61
		<hr/> \$2,621 26
		<hr/>

HEALTH YARD, LABOR.

Appropriation.....	\$28,355 00	
Additional Appropriation.....	118 51	
Receipts App. Health Small Pox..	163 75	
		<hr/> \$28,637 26
		<hr/>

EXPENDITURES.

To Sundry Persons for Labor.....	28,637 26	
		<hr/> \$28,637 26
		<hr/>

HEALTH YARD, SUNDRIES.

Appropriation.....	\$5,000 00	
Additional Appropriation.....	48 43	
		<hr/> \$5,048 43
		<hr/>

HEALTH YARD, SUNDRIES—Continued.

EXPENDITURES.

Water:

App. Water Works	96 75	
	<hr/>	96 75

Lighting:

To Lowell Electric Light Corp...	27 10	
Lowell Gas Light Co.....	67 56	
	<hr/>	94 66

Fuel:

To John Brady.....	20 00	
John T. Brennan.....	12 00	
Edward Cawley.....	68 95	
Daniel Gage	6 48	
Lowell Coal Co.....	50 04	
Joseph Mullin.....	23 63	
Daniel T. Sullivan.....	72 14	
	<hr/>	253 24

Hay Grain etc.:

To Coffey Bros.....	200 00	
J. B. Cover & Co.....	281 82	
Chas. Dumas & Co	8 10	
Geo. M. Foster	201 08	
Lowell Coal Co.	540 41	
T. J. McDonald.....	152 89	
H. E. Noyes & Son.....	42 24	
Paul Vigeant & Co.....	855 77	
O. D. Wilder.....	506 63	
	<hr/>	2,788 94

Horses, Carriages, Harnesses and Repairs:

To Robert Barris.....	1 00	
A. L. Butman	11 30	
Donovan Harness Co.....	351 15	
F. B. Hill & Co.....	52 00	
Patrick Lally & Sons....	70 00	
H. J. O'Dowd	26 00	
Sawyer Carriage Co	5 75	
J. H. Sparks.....	6 10	
	<hr/>	523 30

Amount carried forward..... \$3,756 89

HEALTH YARD, SUNDRIES—Continued.

Amount brought forward.....		\$3,756 89
Lumber:		
To Burham & Davis	35 93	
Davis & Sargent.....	17 50	
Pratt & Forrest	50 75	
Amasa Pratt & Co.....	6 48	
Wm. H. Wignin.....	17 47	
	<hr/>	128 13
Hardware, Pipe Fittings, etc.:		
To Adams Hardware & Paint Co.	28 69	
Boutwell Bros.....	653 15	
John Callaghan.....	2 92	
Farrell & Conaton.....	7 78	
Fitzpatrick & Welch.....	24 94	
E. P. Flanders & Co.....	23 50	
H. C. Girard.....	15 73	
W. A. Mack & Co.....	25 44	
Thompson Hardware Co.....	9 96	
Union File Co	2 25	
H. H. Wilder.....	1 00	
	<hr/>	795 36
Painters' Supplies:		
To Adams Hardware & Paint Co.	12 97	
Sylvester Bean.....	3 65	
J. C. Bennett.....	20 80	
C. B. Coburn Co.....	27 60	
Walter Coburn & Co.....	3 00	
P. Dempsey & Co.....	13 75	
	<hr/>	81 77
Laundrying:		
To McNabb Bros.....	12 89	
	<hr/>	12 89
Sundries:		
To B. & M. R. R.....	1 25	
A. W. Baker	18 00	
Willis H. Bean.....	1 50	
Bon Marche.....	5 00	
John Cross.....	68 50	
	<hr/>	
Amounts carried forward.....	\$94 25	\$4,775 04

HEALTH YARD, SUNDRIES—Continued.

Amounts brought forward.....		\$4,775 04
G. M. Foster	9 38	
Daniel Gage.....	7 64	
C. H. Hanson & Co.....	10 00	
Geo. E. Hutchins.....	11 50	
Keefe Bros.....	1 95	
Frank McAvinue.....	10 70	
James Murkland & Son	43 93	
Frank E. McNabb.....	4 25	
Morse Coach Co.....	8 00	
N. E. T. & T. Co.....	90	
O'Sullivan Bros. Co.....	3 75	
G. C. Prince & Son.....	6 00	
Shepard, Clark & Co.....	10 80	
W. A. Sherman.....	18 00	
J. H. Sparks.....	16 00	
Charles L. Sweetsir.....	4 75	
Simpson & Rowland.....	7 95	
Talbot Dye & Chemical Co...	3 64	
		<hr/> 273 39
		<hr/> \$5,048 43

HEALTH, SMALL POX.

Appropriation.....	\$1,010 02	
		<hr/> \$1,010 02

EXPENDITURES.

Provisions, Fuel, Clothing, etc. :		
App. Lowell City Hospital Grain,		
Groceries and Provisions..	94 76	
J. S. Brooks.....	10 32	
Edward Cawley... ..	14 10	
Gilbride's.....	5 88	
O. F. Prentiss.....	22 25	
		<hr/> 147 31
Amount carried forward.....		<hr/> \$147 31

HEALTH, SMALL POX—Continued.

Amount brought forward.....		\$ 147 31
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Labor and Material :

App. Public Buildings, Carpenters, Painters, etc.....	7 94	
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		7 94
--	--	------

Physicians and Attendants :

App. Health, Yard Labor.....	163 75	
J. F. Boyle.....	23 00	
John Dolan... ..	130 00	
W. A. Johnson	30 00	
Mrs. Judd.....	70 00	
E. J. Livingston.....	174 00	
Frank McAvinue.....	51 80	
D. J. F. Spinney	15 00	
G. B. Wilson.....	2 00	

		659 55
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Medicines :

To Charles E. Carter.....	15 58	
Ellingwood & Co	49	
Johnson & Johnson.... .	76 80	

		92 87
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Sundries :

App. Health Office.....	42 85	
Fred A. Bates.....	39 50	
Mrs. Manuel Perry	20 00	

		102 35
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		\$1 010 02
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HEALTH, CREMATOR CONSTRUCTION.

Appropriation.....	\$10,000 00	
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		\$10,000 00
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Balance undrawn Dec. 31, 1904 . . .	\$10,000 00	
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		\$10,000 00
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HEATING CITY HALL AND MEMORIAL BUILDING, LABOR.

Appropriation.....	\$3,000 00	
	<hr/>	
		<u>\$3,000 00</u>

EXPENDITURES.

To Sundry Persons for Labor.....	2,984 00	
	<hr/>	
Transferred to General Treasury Fund	16 00	
	<hr/>	
		<u>\$3,000 00</u>

HEATING CITY HALL AND MEMORIAL BUILDING, FUEL.

Appropriation.....	\$3,000 00	
Additional Appropriation.....	1,300 00	
	<hr/>	
		<u>\$4,300 00</u>

EXPENDITURES.

To Edward Cawley.....	3,968 16	
D. W. Horne & Son.....	34 13	
Lowell Coal Co.....	297 71	
	<hr/>	
		<u>\$4,300 00</u>

HEATING CITY HALL AND MEMORIAL BUILDING. SUNDRIES.

Appropriation.....	\$600 00	
Additional Appropriation.	44 38	
	<hr/>	
		<u>\$644 38</u>

HEATING CITY HALL AND MEMORIAL BUILDING SUNDRIES—Continued.

EXPENDITURES.

Repairs on Heating Apparatus :

App. Water Works.....	14 25	
Boutwell Bros.....	1 20	
H. R. Barker Mfg. Co.....	11 65	
Harry S. Drury.	1 50	
Farrell & Conaton.....	2 65	
D. J. Leary	52 57	
Lubron Mfg. Co	7 64	
Star Brass Mfg. Co.....	27 11	
Scannell Boiler Works	6 52	
Welch Bros... .	355 75	
	<hr/>	480 84

Oil, Waste, etc. :

To Boston Engineers Supply Co..	47 98	
C. B. Coburn Co.....	24 02	
H. C. Girard.....	4 05	
Kelty Bros.....	60	
Smith & Lawrence.....	1 88	
	<hr/>	78 53

Hardware, etc. :

To Adams Hardware & Paint Co.	9 00	
W. T. S. Bartlett.....	4 25	
Carroll Bros.....	1 00	
E. P. Flanders & Co.....	2 00	
H. C. Girard.....	1 25	
Smith & Lawrence.....	75	
Thompson Hardware Co.....	1 86	
	<hr/>	20 11

Sundries :

App. School Houses, Labor and Material.....	41 38	
Derby & Morse.....	15 60	
Man. & Con. Express Co.....	15	
Pratt & Forrest.....	1 30	
Daniel T. Sullivan.....	1 50	
Tucke & Parker	4 22	
Henry F. Whiting....	75	
	<hr/>	64 90
		<hr/>
		<u>\$644 38</u>

HUNTINGTON HALL.

Appropriation.....	\$4,900 00	
	<hr/>	
		<u>\$4,900 00</u>

EXPENDITURES.

To Sundry Persons for Labor.....	1,688 09	
	<hr/>	1,688 09
Water :		
App. Water Works.....	61 49	
	<hr/>	61 49
Fuel :		
To Edward Cawley.....	823 45	
Lowell Coal Co.....	93 80	
	<hr/>	917 25
Rent :		
To B. & M. R. R.....	750 00	
	<hr/>	750 00
Lighting :		
To Lowell Gas Light Co	21 69	
Lowell Electric Light Corp...	555 50	
	<hr/>	577 19
Hardware, etc. :		
To Adams Hardware & Paint Co.	4 90	
P. J. Custy & Co	4 50	
Thompson Hardware Co.....	35	
	<hr/>	9 75
Pipe Fittings, etc. :		
So H. R. Barker Mfg. Co.....	4 74	
John H. Barry.....	44 00	
J. D. Danahy.....	15 32	
H. J. Fitzpatrick.....	45 60	
Fitzpatrick & Welch.....	4 50	
George P. Green.....	12 87	
C. F. Hoisington & Son	2 10	
W. A. Mack & Co	96	
Middlesex Machine Co.....	36 73	
Welch Bros.....	165 77	
C. Zimmer.....	50	
	<hr/>	333 09
Amount carried forward.....		\$4,336 86

HUNTINGTON HALL, SUNDRIES—Continued.

Amount brought forward..... \$4,336 86

Painters' Supplies :

To Adams Hardware & Paint Co.	2 85
C. B. Coburn Co.	32 61
Lowell Polish Co.	14 50
Willard W. Morrison.....	3 75

53 71

Sundries :

To F. M. Bill & Co.	2 08
Bon Marche	50
Derby & Morse.....	1 50
Eagle Electric Co.	115 95
Goldena Mfg. Co.....	18 00
A. W. Lewis & Co.....	11 50
G. C. Prince & Son	7 50
Talbot Dye & Chemical Co...	5 03
J. H. Walker.....	3 45

165 51

4,556 08

Transferred to General Treasury
Fund

343 92

\$4,900 00

RIFLE RANGE JANITOR.

Appropriation..... \$456 25

\$456 25

RIFLE RANGE—Continued.

EXPENDITURES.

To Frank Burns	76 75	
C. L. Faneuf.....	11 88	
P. Grady.....	225 00	
J. Murray.....	77 50	
Waldo F. Miles.....	65 00	
	<hr/>	456 13
Transferred to General Treasury Fund		12
		<hr/>
		\$456 25
		<hr/>

RIFLE RANGE TAXES.

Appropriation.	\$87 96	
	<hr/>	
		\$87 96
		<hr/>

EXPENDITURES.

To Town of Dracut, tax of 1904..	79 45	
Transferred to General Treasury Fund	8 51	
	<hr/>	
		87 96
		<hr/>

RIFLE RANGE TARGETS, PASTERS, SUPPLIES.

Appropriation.....	\$84 88	
	<hr/>	
		\$84 88
		<hr/>

EXPENDITURES.

To W. T. S. Bartlett.....	1 23	
Kelley & Brennan.....	18 36	
	<hr/>	
Amount carried forward... ..	\$ 19 59	

RIFLE RANGE—Continued.

Amount brought forward.....	\$ 19 59	
Kelty Bros.....	50	
Lull & Hartford.....	57 95	
C. H. May & Co.....	3 74	
Thompson Hardware Co.....	1 85	
		<hr/>
		83 63
Transferred to General Treasury		
Fund		1 25
		<hr/>
		\$84 88
		<hr/>

RIFLE RANGE REPAIRS.

Appropriation.....	\$70 91	
Additional Appropriation.....	75	
		<hr/>
		\$71 66
		<hr/>

EXPENDITURES.

To Sundry Persons for Labor ...	30 75	
App. School Houses Labor...	4 66	
E. P. Flanders & Co.....	81	
A. W. Lewis & Co	35 44	
		<hr/>
		\$71 66
		<hr/>

RIFLE RANGE, IMPROVEMENTS AT RANGE.

Appropriation.....	\$300 00	
		<hr/>
		\$300 00
		<hr/>

EXPENDITURES.

To Sundry Persons for Labor....	101 48	
App. School Houses, Work		
and Material.....	39 33	
App. Public Buildings, Material	2 10	
P. P. Conners & Co.....	29 10	
		<hr/>
Amount carried forward.....	\$172 01	

RIFLE RANGE—Continued.

Amount brought forward	\$ 172 01	
Eagle Electric Co.....	53 23	
A. W. Lewis & Co.....	2 00	
Lull & Hartford.....	12 00	
A. L. Ready & Son.....	20 44	
Thompson Hardware Co	3 30	
Wm. H. Wiggin.....	36 96	
		299 94
Transferred to General Treasury Fund		06
		<u>\$300 00</u>

INCIDENTALS.

Appropriation.....	\$2,750 00	
		<u>\$2,750 00</u>

EXPENDITURES.

Stationery, Printing, Typewriting, etc. :		
To Frances E. Andrews.	5 00	
Courier-Citizen Co.....	92 90	
Daily Mail Publishing Co.....	12 55	
Helen A. Dimon.....	14 72	
Dumas & Co.....	252 58	
Libby Printing Co.....	198 68	
Lowell Sun.....	26 60	
M. A. Ordway.....	28 00	
G. C. Prince & Son.....	425 22	
Sunday Telegram.....	3 53	
Union Printing Co.....	284 50	
		1,344 28
Entertainments and Refreshments :		
To Merrimac House.....	25 80	
New American.....	13 00	
D. L. Page Co	18 60	
F. E. Putnam.....	10 90	
Waverly Hotel.....	145 00	
		213 30
Amount carried forward.....		<u>\$1,557 58</u>

INCIDENTALS—Continued.

Amount brought forward.....		\$1,557 58
Carriage hire :		
To Joseph Albert	8 00	
George Chapman.....	3 50	
P. F. McNulty.....	20 00	
Morse Coach Co.....	4 00	
J. H. Sparks.....	27 00	
		<hr/>
		62 50
Sundries :		
To American Express Co.....	5 50	
John F. Connors	158 00	
Commonwealth of Mass.....	1 00	
M. G. Gardner.....	493 00	
Alvin Lawrence.....	50 00	
J. A. Mercier.....	37 28	
J. F. McElholm.....	6 00	
Middlesex Safe Deposit and Trust Co.....	50 00	
W. G. Page	2 75	
Charles F. Young & Co.....	150 00	
		<hr/>
		953 53
		<hr/>
		2,573 61
Transferred to General Treasury Fund		176 39
		<hr/>
		\$2,750 00
		<hr/>

INSURANCE.

Appropriation.....	\$5,474 14	
	<hr/>	
		\$5,474 14
		<hr/>

EXPENDITURES.

To Frank M. Brogan.....	67 00	
Brown & Dewar	180 28	
Joseph A. Bruley.....	94 00	
	<hr/>	
Amount carried forward	\$341 28	

INSURANCE—Continued.

Amount brought forward.....	\$ 341 28	
Fred C. Church.....	2,200 91	
Geo. B. Coburn.....	120 78	
Arthur L. Gray.....	56 00	
Geo. D. Kimball.....	120 78	
Thos. C. Lee & Co.....	480 78	
Ezra E. Mansur.....	73 78	
Geo. E. Metcalf & Co.....	180 28	
Henry Miller & Co.....	120 78	
N. G. Norcross.....	530 28	
Jas. Murphy & Son.....	120 78	
Joseph Peabody, Agent.....	461 78	
Eugene G. Russell.....	47 00	
Smith & Cavanaugh.....	94 00	
E. M. Tucke.....	123 78	
Graham R. Whidden.....	120 78	
Herbert A. Wright.....	94 00	
	<hr/>	5,287 77
Transferred to General Treasury Fund.....		186 37
		<hr/>
		\$5,474 14
		<hr/>

LAW SALARIES.

Appropriation.....	\$4,826 00	
Additional Appropriation.....	2 01	
	<hr/>	\$4,828 01
		<hr/>

EXPENDITURES.

To William A. Hogan.....	3,000 00	
App. of Police Salaries and Labor, Services of M. E. McDonald... ..	1,200 01	
Frances E. Andrews.....	628 00	
	<hr/>	\$4,828 01
		<hr/>

LAW SUNDRIES.

Appropriation.....	\$800 00	
	<hr/>	\$800 00
		<hr/>

LAW, SUNDRIES—Continued.

EXPENDITURES.

Books, Stationery, Printing, etc. :

To Courier-Citizen Co.....	3 00
Dumas & Co.....	1 50
H. C. Kittredge.....	55
Thomas H. Lawler.	7 50
Lawler Printing Co.....	8 50
Lawyers Co-operation Publish- ing Co.....	26 00
Little, Brown & Co.....	28 70
G. C. Prince & Son.....	26 60
Review & Record Co.	5 00
Wylie & Sanborn.....	1 88
Sampson, Murdock & Co.....	3 00
Smith Premier Typewriter Co.	1 50
Frank Shepard & Co.....	3 00
Edward Thompson & Co.....	22 50
Union Printing Co.....	19 60

158 83
Professional Services and Witness
Fees :

To William A. Hogan.....	285 50
Francis W. Qua.....	91 85
George F. Stiles	16 00

393 35

Transportation, Carriage hire, etc. :

To American Express Co.....	85
G. W. Chapman	1 50
O. P. Davis	67 00
Keefe & Horan.....	2 00
Morse Coach Co	10 60
J. H. Sparks	62 70

144 65

Telephone, etc. :

To N. E. T. & T. Co.....	7 30
W. U. T. Co.....	66

7 96

Amount carried forward

\$ 704 79

LAW, SUNDRIES—Continued.

Amount brought forward.....		\$704 79
Sundries :		
To Frances E. Andrews.....	2 55	
J. D. Bartley	1 50	
A. G. Pollard & Co	15	
A. H. Sanborn & Co.....	5 25	
		<u>9 45</u>
		714 24
Transferred to General Treasury Fund		<u>85 76</u>
		<u>\$800 00</u>

LIBRARY.

Appropriation	\$16,000 00	
		<u>\$16,000 00</u>

EXPENDITURES.

To Trustees City Library.....	\$16,000 00	
		<u>\$16,000 00</u>

LIGHTING STREETS.

Appropriation.....	\$101,645 00	
		<u>\$101,645 00</u>

EXPENDITURES.

To Sundry Persons for Labor....	1,008 00	
Lowell Electric Light Corp...	63,327 75	
Lowell Gas Light Co., Gas...	105 66	
Welsbach St. Lighting Co. of A., Gas.....	25,577 47	
Welsbach St. Lighting Co. of A., Gasoline.....	11,182 51	
		<u>101,201 39</u>
Transferred to General Treasury Fund		<u>443 61</u>
		<u>\$101,645 00</u>

LIGHTING PUBLIC BUILDINGS.

Appropriation.....	\$30 00	
	<hr/>	
		\$30 00
		<hr/>

EXPENDITURES

To Lowell Gas Light Co.....	20 34	
Transferred to General Treasury Fund	9 66	
	<hr/>	\$30 00
		<hr/>

LIGHTING, SUNDRIES.

Appropriation.....	\$300 00	
	<hr/>	
		\$300 00
		<hr/>

EXPENDITURES.

To B. & M. R. R., Tickets.....	20 00	
Buckland Printing Co.....	2 50	
Butterfield Printing Co.....	8 00	
O. P. Davis	4 00	
Thos. H. Lawler.....	3 35	
Lowell Gas Light Co.....	83 88	
G. C. Prince & Son.....	10 00	
Waverly Hotel.....	13 00	
Welch Bros.....	2 64	
	<hr/>	147 37
Transferred to General Treasury Fund		152 63
		<hr/>
		\$300 00
		<hr/>

LIGHTING, NEW LIGHTS.

Appropriation.....	\$300 00	
		<u>\$300 00</u>
Returned to General Treasury Fund	300 00	
		<u>\$300 00</u>

LIQUOR LICENSES.

Appropriation.....	\$43,250 00	
		<u>\$43,250 00</u>

EXPENDITURES.

To Commonwealth of Mass.....	42,974 00	
Transferred to General Treasury Fund	276 00	
		<u>\$43,250 00</u>

PARKS, SALARIES AND LABOR.

Appropriation.....	\$9,000 00	
Additional Appropriation.....	1 38	
		<u>\$9,001 38</u>

EXPENDITURES.

To Charles A. Whittet, Supt....	1,199 96	
Sundry Persons for Labor....	7,249 43	
App. for Engineering.....	61 24	
Geo. A. Nelson.....	16 25	
A. Parsons.....	7 40	
J. T. Williamson.....	17 10	
		<u>8,551 38</u>
Transferred to General Treasury Fund		450 00
		<u>\$9,001 38</u>

PARKS, SUNDRIES.

Appropriation.....	\$3,000 00	
Additional Appropriation.....	450 00	
Receipts App. Care of City Hall		
Sundries	12 49	
App. Parks, Care of Trees.....	82 10	
		<u>\$3,544 59</u>

EXPENDITURES.

Lumber:		
To Pratt & Forrest.....	53 31	
Wm. H. Wiggin.....	100 06	
		<u>153 37</u>
Pipe Fittings, etc. :		
To H. R. Barker Mfg. Co.....	88 88	
Carroll Bros.....	4 00	
Farrell & Conaton.....	133 21	
Charles E. Gee.....	31 95	
C. N. Rice & Son.....	1 55	
Union Iron Foundry.....	62 30	
H. H. Wilder & Co.....	11 06	
		<u>332 95</u>
Carriages, Harnesses, Repairs, etc. :		
To Donovan Harness Co.....	27 20	
F. B. Hill & Co.	78 05	
J. H. Laporte	27 19	
		<u>132 35</u>
Shoeing Horses :		
To Cahill Bros.....	11 20	
M. J. Cahill.....	20 75	
Owen J. Carney.....	19 00	
John J. Donnelly.....	25 00	
		<u>75 95</u>
Plants, Shrubs, Trees, Loam, etc. :		
To Alphonse Bibeault.....	23 85	
P. Conroy.....	25 31	
Follansbee Nursery.	33 75	
J. J. McManmon.....	100 75	
		<u> </u>
Amounts carried forward.....	\$183 66	\$694 62

PARK SUNDRIES—Continued.

Amounts brought forward.....	\$183 66	\$694 62
P. O'Hearn.....	3 15	
Reading Nursery.....	20 00	
Schlegel & Fottler Co.....	50	
Sherman & Martin.....	42 35	
Whittet & Co.....	341 19	
Burton H. Wiggins.....	1 50	
	<hr/>	592 35
Painters' Supplies :		
To Adams Hardware & Paint Co.....	14 91	
J. C. Bennett.....	26 09	
C. B. Coburn Co.....	14 65	
Talbot Dye & Chemical Co....	1 00	
	<hr/>	56 65
Hardware, etc. :		
To C. Crevier.....	1 00	
Boutwell Bros.....	1 98	
F. W. Cheney & Co.....	12 30	
E. P. Flanders & Co.....	157 41	
C. F. Keyes & Co.....	4 25	
W. A. Mack & Co.....	90	
Steel Basket Co.....	15 00	
Thompson Hardware Co.....	3 52	
	<hr/>	196 36
Stationery, Printing, etc. :		
To Bntterfield Printing Co.....	216 14	
Colonial Press.....	1 00	
Dumas & Co.....	4 75	
Thomas H. Lawler.....	3 00	
Libbey Printing Co.....	3 50	
G. C. Prince & Son.....	26 00	
Sampson, Murdock & Co.	3 00	
Tilton & Co.....	1 75	
	<hr/>	259 14
Hay, Grain, etc. :		
To Charles Dumas & Co.....	40 60	
Fred A. Fox.	61 95	
Livingston Grain Co.....	65 97	
T. J. McDonald.....	29 65	
	<hr/>	
Amounts carried forward.....	\$198 17	\$1,799 12

PARK SUNDRIES—Continued.

Amounts brought forward.....	\$198 17	1,799 12
Joseph Mullin.....	59 32	
H. E. Noyes & Son.....	43 70	
G. W. Trull.....	113 35	
Paul Vigeant & Co.....	15 31	
O. D. Wilder.....	25 32	
	<hr/>	455 07
Horses, Carriage hire, etc. :		
App. Streets Sundries.....	51 96	
C. H. Hanson & Co.....	175 80	
Morse Coach Co.	1 50	
	<hr/>	229 26
Sundries ·		
App. Water Works.....	30 24	
“ Streets, Sundries.....	57 71	
“ Sewer Maintenance, Sundries	22 00	
“ Engineering	136 46	
American Express.....	1 15	
George E. Bennett.....	2 13	
B. & M. R. R.....	42 35	
B. & N. St. Ry.....	100 00	
F. M. Bill & Co	3 75	
George Bowers.....	2 15	
Boulger Shoe Co.....	4 25	
Edward Cawley.....	36 80	
Conners Bros.....	33 25	
P. Conroy.....	5 32	
C. T. Clifford.....	13 50	
Bridget Cookin.....	2 13	
R. J. Haight.....	1 00	
A. N. Harmon.....	2 70	
L. C. Hall.....	116 32	
Fred E. Jones.....	165 00	
Keefe & Horan	2 00	
A. W. Lewis & Co.....	53 95	
Lowell Electric Light Corp...	8 63	
Joseph Mullin.....	7 72	
N. E. T. & T. Co.....	15 85	
N. Y., N. H. & H. R. R....	1 28	
P. O'Hearn.....	116 60	
	<hr/>	
Amounts carried forward.....	\$984 24	\$2,483 45

PARK SUNDRIES—Continued.

Amounts brought forward.....	\$984 24	\$2,483 45
J. Peabody	28 80	
A. Parsons	2 30	
Victor Pihl.....	65	
C. N. Rice & Son.....	15	
Robertson & Co	50	
W. A. Sherman.....	3 50	
Daniel T. Sullivan.....	31 60	
Charles A. Whittet	2 04	
James Welch	25	
A. C. Wheelock.....	7 00	
	<hr/>	1,061 03
		<hr/>
		3,544 48
Transferred to General Treasury Fund		11
		<hr/>
		\$3,544 59
		<hr/>

PARKS, CARE OF TREES.

Appropriation.....	\$1,000 00	
Receipts.....	3 25	
	<hr/>	
		\$1,003 25
		<hr/>

EXPENDITURES.

App. Parks Sundries.....	82 10	
Sundry Persons for Labor	451 58	
Adams Hardware & Paint Co.	27 75	
Butterfield Printing Co.....	1 25	
J. C. Bennett	37 45	
Boutwell Bros	2 84	
Courier-Citizen Co.....	7 50	
C. B. Coburn Co.....	26 34	
E. P. Flanders & Co.....	79 35	
H. L. Gonzales	5 75	
F. B. Hill & Co.....	206 85	
	<hr/>	
Amount carried forward.....	\$928 76	

PARKS, CARE OF TREES—Continued.

Amount brought forward.	\$928 76	
C. F. Keyes.....	46 00	
James F. Mooney.....	2 50	
A. Parsons	4 90	
Pratt & Forrest.....	1 25	
C. N. Rice & Son.....	3 35	
Thompson Hardware Co.....	11 28	
Charles A. Whittet.....	1 95	
		999 99
Transferred to General Treasury Fund		3 26
		<u>\$1,003 25</u>

PARKS, MOTHS.

Appropriation.....	\$500 00	
		<u>\$500 00</u>
Balance undrawn Dec. 31, 1904 ...	\$500 00	
		<u>\$500 00</u>

LOWELL CITY HOSPITAL AND ALMSHOUSE,
SALARIES.

Appropriation.....	\$2,700 00	
		<u>\$2,700 00</u>

EXPENDITURES.

To Charles E. Donlan, Supt.....	2,000 00	
Edward O. Tabor, City Physi- cian.	233 33	
Forster H. Smith, City Physi- cian	466 67	
		<u>\$2,700 00</u>

LOWELL CITY HOSPITAL AND ALMSHOUSE, LABOR.

Appropriation.....	\$11,617 89	
Additional Appropriation.....	1,000 59	
	<hr/>	\$12,618 48

EXPENDITURES.

To Sundry Persons for Labor....	12,618 48	
	<hr/>	\$12,618 48

LOWELL CITY HOSPITAL AND ALMSHOUSE, GRAIN, GROCERIES AND PROVISIONS.

Appropriation.	\$20,000 00	
Additional Appropriation.....	3,882 02	
Receipts App. Paupers, O. D. R.		
General Sundries.....	8,636 00	
App. Health Office Sundries.....	14 60	
App. Health, Small Pox.....	94 76	
	<hr/>	\$32,627 38

EXPENDITURES.

To C. M. Allen.....	97 82	
Armour & Co.....	78 75	
E. J. Barrett.....	9 50	
James Boyle & Sons.....	285 62	
Owen E. Brennan.....	164 57	
F. M. Bill & Co.....	1,733 09	
G. J. & D. Bradt.....	39 94	
Peter J. Brady.....	1,326 62	
Breen Bros.....	48 45	
M. Calnin.....	22 14	
Central Cash Market.....	29 12	
J. B. Cover & Co.....	62 50	
C. P. Comerford.....	245 30	
	<hr/>	
Amount carried forward.....	\$4,143 42	

LOWELL CITY HOSPITAL AND ALMSHOUSE, GRAIN,
GROCERIES AND PROVISIONS—Continued.

Amount brought forward..... \$4,143 42

Coffey Bros.....	4,958,86
C. G. Coburn	516,55
John P. Curley.....	11 18
M. Donovan & Co.....	21 75
S. K. Dexter.....	391 67
Hugh Duggan	7 50
F. L. Emerson.....	4 00
W. P. Foye	206 49
Thomas B. Fahey.....	1,334 27
James E. Freeman.....	169 45
Fleischmann & Co.....	141 30
Joseph Flynn.....	281 40
J. W. Green.....	93 25
Frank M. Harrington	34 00
G. H. Hammond & Co	61 20
Haynes & Bean.....	111 05
J. S. Herrick.....	241 00
W. A. Ingham & Co	475 17
J. J. Johnson.....	45 00
Keefe Bros	60 95
Lee Bros.....	246 98
Lowell Packing & Provision Co.....	4,601 03
Lowell Pharmacy.....	50
Mansfield, Witham & Co. ...	1,271 30
J. McGlinchey.....	145 10
M. McGlinchey.....	41 55
Joseph Mullin.....	51 00
A. E. Morse.....	47 25
A. L. Macrae.....	357 48
John J. McCann	30 30
McKinley Bros.....	10 25
T. J. McDonald.....	299 75
William J. Murphy.....	36 99
T. F. McKay.....	81 00
Carl Noyes.....	86 52
H. E. Noyes & Son.....	3,559 56
F. Murphy.....	90 00
Owen Nerney.....	27 85

Amount carried forward... .. \$24,293 87

LOWELL CITY HOSPITAL AND ALMSHOUSE, GRAIN,
GROCERIES AND PROVISIONS—Continued.

Amount brought forward..... \$ 24,293 87

Oakdale Mfg. Co.....	105 00
P. J. O'Brien.....	146 02
O'Brien Bros.....	282 86
O'Donnell & Gilbride Co.....	139 90
John J. Payne	19 35
Pawtucketville Cash Grocery..	326 16
Philbrick & Wood.....	221 38
A. G. Pollard & Co	182 42
C. F. Pihl.....	54 40
G. E. Putnam & Son.....	1,170 71
G. C. Prince & Son.....	2 00
D. L. Phillips	1 30
Fred H. Rourke.....	502 50
J. B. Sabre.....	9 75
John F. Saunders.....	232 80
T. E. Sheehan.....	91 60
Simpson & Rowland.....	650 40
E. M. Slayton & Co.....	163 04
T. A. D. Sullivan & Co.....	102 31
Swift & Co.....	120 00
Swift & Bailey.....	3,065 03
E. Whitcomh.....	78 72
Charles W. Wilder.....	339 96
O. D. Wilder.....	325 90

\$32,627 38

LOWELL CITY HOSPITAL AND ALMSHOUSE, SUNDRIES.

Appropriation.....	\$16,500 00	
Additional Appropriation.....	5,864 17	
Receipts App. Paupers O. D. R.		
General Sundries.....	1,311 00	
		<hr/>
		\$23,675 17

EXPENDITURES.

Fuel :

To John Brady	32 00	
Edward Cawley.....	2,613 91	
D. W. Horne & Son.....	259 75	
Horne Coal Co.....	32 84	
Lowell Coal Co.....	3,255 71	
Joseph Mullin	82 62	
F. Murphy.....	176 44	
Daniel T. Sullivan.....	1,480 83	
		<hr/>
		7,934 10

Water, Lighting, Telephone :

App. Water Works.....	1,895 05	
Lowell Electric Light Corp...	162 77	
Lowell Gas Light Co.....	1,248 95	
N. E. T. & T. Co.....	27 00	
		<hr/>
		3,333 77

Clothing, Dry Goods, etc.:

To Bon Marche.....	289 50	
Boulger Shoe Co.....	55 15	
Centralville Millinery Store...	48 00	
J. L. Chalifoux.....	119 00	
J. Drain	213 39	
Patrick Fitzgibbon	118 80	
Gilbride's.....	167 02	
James E. Gorman.....	63 00	
James D. Haley.....	25 20	
T. H. Kelley & Co.....	179 00	
Kelley Bros.	42 00	
C. H. Kimball & Co.....	199 83	
John J. Lonergan	56 35	
Lowell One Price Clothing Co.	208 00	
		<hr/>

Amounts carried forward.....	\$1,784 24	\$11,267 87
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LOWELL CITY HOSPITAL AND ALMSHOUSE
SUNDRIES—Continued.

Amounts brought forward.....	\$1,784 24	\$11,267 87
Mass. State Prison.....	636 60	
Mass. Reformatory.....	150 00	
Merrimack Clothing Co.....	130 25	
F. R. McKinley.....	50 75	
G'Donnell Dry Goods Co.....	23 92	
Parthenais Bros.....	13 65	
A, G. Pollard & Co.....	201 82	
Putnam & Son Co.....	39 70	
J. E. Shanley & Co.....	32 56	
Sunlight Shoe Store.....	27 50	
Talbot Clothing Co.....	90 00	
		3,180 99
Furniture, Repairs, etc. :		
To W. F. Devlin.....	90 10	
John J. Doherty & Co.....	96 84	
Gookin Bros.....	11 75	
James T. Henry & Co.....	13 75	
Robertson & Co.....	7 10	
H. C. McOsker.....	66 00	
		285 54
Hardware and Tools :		
To Adams Hardware & Paint Co.....	91 02	
Boutwell Bros.....	5 07	
W. T. S. Bartlett.....	70	
Owen E. Brennan.....	17 95	
John Callaghan.....	1 48	
T. W. Cheney & Co.....	86 60	
E. P. Flanders & Co.....	131 57	
Hanscom Hardware Co.....	1 20	
N. D. Lafleur.....	19 00	
Phillips & Hill.....	1 00	
Thompson Hardware Co.....	12 20	
		367 79
Pipe Fittings, etc. :		
To American Safe and Lock Works.....	23 20	
Carroll Bros.....	41 74	
Harry S. Drury.....	22 25	
Amounts carried forward.....	\$87 19	\$15,102 19

LOWELL CITY HOSPITAL AND ALMSHOUSE
SUNDRIES—Continued.

Amounts brought forward.....	\$87 19	\$15,102 19
Doane Steam Pump Co.....	2 50	
Empire Laundry Machinery Co	36 25	
Farrell & Conaton.....	53 32	
Charles E. Gee.....	1 25	
George P. Green.....	150 36	
Locke Regulator Co.....	13 66	
D. Leary.....	4 08	
W. A. Mack & Co	14 65	
W. McLarney & Co.....	21 12	
W. M. McElholm.....	1 20	
Scannell Boiler Works.....	11 75	
Welch Bros.....	147 52	
H. H. Wilder & Co	31 35	
	<hr/>	576 20
Lumber :		
To Burnham & Davis Lumber Co.	33 64	
Davis & Sargent Lumber Co..	110 00	
Pratt & Forrest.....	20 11	
William H. Wiggin.....	604 11	
	<hr/>	767 86
Painiers and Electricians Supplies :		
To Adams Hardware & Paint Co.	173 65	
Sylvester Bean.....	87 86	
C. B. Coburn Co.....	129 48	
F. M. Griffin & Co.....	50 00	
A. L. Kittredge & Co.....	4 00	
Willard W. Morrison.....	7 50	
Smith & Lawrence	6 75	
	<hr/>	459 24
Stationery, Printing, etc. :		
To J. Hary Boardman	1 50	
Courier-Citizen Co.....	6 00	
Daily Mail Publishing Co.....	76 30	
Thomas H. Lawler.....	29 75	
Osmond Long.	60	
Library Bureau	16 50	
	<hr/>	
Amounts carried forward.....	\$130 65	\$16,905 49

LOWELL CITY HOSPITAL AND ALMSHOUSE
SUNDRIES—Continued.

Amounts brought forward.....	\$130 65	\$16,905 49
G. C. Prince & Son	26 42	
Sampson, Murdock & Co.....	3 00	
	<hr/>	160 07
Mason Work and Material:		
To Mahan & Meehan.....	13 80	
D. T. Sullivan.....	70 70	
	<hr/>	84 50
Drugs, Medicines, etc.:		
To Belvidere Family Drug Store..	14 70	
F. H. Butler & Co.....	16 00	
Charles E. Carter.....	73 55	
Carleton & Hovey.....	8 51	
Columbiau Insecticide Co	216 66	
Concord Drug Store.....	20 95	
P. Dempsey & Co.....	55 00	
Davies, Rose & Co	50 00	
P. H. Donohue & Co.....	5 00	
Ellingwood & Co.....	15 40	
Falls & Burkinshaw	84 15	
Frye & Crawford.....	11 50	
Edward Gallagher.....	206 13	
Fred Howard.....	12 50	
R. J. Lang & Co.....	157 15	
Leach & Green.....	6 00	
E. A. McQuade.....	116 28	
Frank E. McNabb.....	46 15	
E. T. McEvoy.....	28 30	
W. H. Pearson.....	12 75	
A. F. Story & Co.....	37 90	
A. J. Swan.....	13 00	
Talbot Dye & Chemical Co...	156 66	
H. L. Timmons.....	192 43	
H. E. Webster & Co.....	374 15	
Zopher Co.....	45 00	
	<hr/>	1,975 82
Carriages, Harnesses and Repairs:		
To A. L. Butman.....	13 50	
Donovan Harness Co.....	237 16	
	<hr/>	
Amounts carried forward	\$250 66	\$19,125 88

LOWELL CITY HOSPITAL AND ALMSHOUSE
SUNDRIES—Continued.

Amounts brought forward.....	\$250 66	\$19,125 88
F. B. Hill & Co.....	33 25	
P. A. MacKenzie.....	21 70	
H. J. O'Dowd.....	156 50	
M. T. Rafferty.....	75 00	
Sawyer Carriage Co.....	52 67	
W. H. Ward.....	22 00	
	<hr/>	611 78
Shoeing Horses :		
To James Blakely.....	1 75	
Cahill Bros	10 40	
M. J. Cahill.....	12 85	
Owen J. Carney.....	37 50	
J. J. Donnelly	52 05	
C. Desmond.....	81 00	
M. J. Haggerty.....	10 75	
A. D. Mitten	2 25	
Henry Reynolds.....	40 30	
	<hr/>	248 85
Sundries :		
To C. M. Allen	2 50	
American Express Co.....	5 55	
Automatic Time Stamp Co ...	3 00	
F. M. Bill & Co	14 30	
B. & M. R. R.....	133 20	
Peter J. Brady.....	105 83	
Buckley Bros.....	67 65	
J. E. Buerk	1 80	
John J. Cluin.....	2 50	
C. G. Coburn.....	203 25	
J. B. Cover & Co.....	9 50	
John Cross.....	30 00	
Cypher Incubator Co.....	1 20	
Joseph Dextra	4 80	
Charles M. Dickey.....	12 50	
W. A. Dickinson.....	228 24	
C. A. Donlan	28 00	
Joseph Fay.....	28 38	
	<hr/>	
Amounts carried forward.....	\$882 20	\$19,986 51

LOWELL CITY HOSPITAL AND ALMSHOUSE
SUNDRIES—Continued.

Amounts brought forward	\$882 20	\$19,986 51
William P. Foye.....	123 15	
James E. Freeman	9 15	
Daniel Gage	83 72	
H. L. Gonzales.....	2 70	
J. W. Green.....	4 72	
Greenwood Bros.....	82 13	
Charles T. Haskell	1 80	
C. F. Hatch & Co.....	4 00	
Joseph Hebert.....	66 00	
J. Edward Hoole.....	88 65	
George E. Hutchins	43 33	
W. A. Ingham Co.....	49 50	
J. B. A. Johnson.....	9 00	
William Jones	5 00	
Thomas H. Kelley	36 00	
E. Kemp.....	25 00	
Leach & Green.....	3 00	
Lowell Rubber Co.....	1 80	
A. L. Macrae.....	26 22	
J. J. Magee.....	3 25	
Man. & Con. Express Co.....	30	
Mellin Loan Office.....	15 00	
Middlesex Ice Co.....	206 82	
J. Murkland & Son.....	70 34	
William J. Murphy.....	3 25	
P. H. McCarthy.....	77 00	
J. J. McManmon.....	60 68	
McKinley Bros	3 60	
Charles E. Munn.....	8 00	
John F. McAskie.....	160 00	
Frank Notini ..	266 00	
National Thermometer Co....	36 25	
N. Y., N. H. & H. R. R.....	88	
O'Brien Bros	132 09	
O'Donnell Bros.	120 00	
John Powell.....	3 00	
J. Quirbach.	76 00	
Harry T. Richardson	1 05	
Ring Music Co	1 50	
Amounts carried forward	<hr/> \$2,792 08	<hr/> \$19,986 51

LOWELL CITY HOSPITAL AND ALMSHOUSE
SUNDRIES—Continued.

Amaunts brought forward.....	\$2,792 08	\$19,986 51
Randlett Bros.....	1 25	
Rice & Co.....	8 00	
A. P. Robertson.....	6 00	
Robertson & Bartlett.....	280 80	
Robertson & Co.....	8 00	
Henry Shaw.....	2 15	
W. A. Sherman.....	3 00	
E. M. Slayton & Co.....	94 88	
Simpson & Rowland.....	91 75	
Town of Chelmsford.....	66 00	
Talbot Dye & Chemical Co...	11 90	
Ernest Towle.....	22 00	
H. H. Wilder.....	8 50	
Wright & Taylor.....	95 90	
Wheeler & Wilson Mfg. Co...	45	
Whitman & Pratt Rendering Co.....	196 00	
		3,688 66
		<u>\$23,675 17</u>

PAUPERS, OUT-DOOR RELIEF, SALARIES.

Appropriation.....	\$3,785 00	
		<u>\$3,785 00</u>

EXPENDITURES

To Martin J. Courtney, Secretary,	1,800 00	
James F. Walsh, Clerk.....	144 26	
Nellie A. Keyes, Clerk.....	945 70	
John F. Courtney, Clerk.....	160 65	
William H. Gallagher, Clerk.	734 39	
		<u>3,785 00</u>

PAUPERS, OUT-DOOR RELIEF, OFFICE SUNDRIES AND TRANSPORTATION.

Appropriation.....	\$800 00	
Additional Appropriation.	25 86	
		<hr/>
		\$825 86

EXPENDITURES.

Stationery, Printing, Posting, etc.:		
To J. D. Bartley.....	3 50	
Carter's Ink Co.....	38	
Courier-Citizen Co.....	16 25	
H. C. Derby.....	5 55	
Dumas & Co	19 25	
Hobbs & Warren Co.....	6 50	
Thomas H. Lawler.....	2 40	
Lawler Printing Co.....	36 00	
Libby Printing Co.....	23 00	
Lyon Platinum Pen Co.....	6 00	
Pneumatic Hand Stamp Co...	2 78	
G. C. Prince & Son.....	9 50	
Sampson, Murdock & Co.....	6 00	
The Dodge Co.....	1 50	
		<hr/>
		138 61
Sundries :		
To American Express Co.....	70	
B. & M. R. R	389 26	
M. J. Courtney.....	212 90	
Franklin Hotel.....	3 25	
Gilbride's.....	35	
Morse Coach Co.....	1 75	
N. E. T. & T. Co.....	5 05	
J. F. O'Donnell & Sons	30 50	
O'Sullivan Bros. Co.....	1 50	
J. H. Sparks.....	9 50	
Fannie S. White	31 00	
W. U. Telegraph Co.....	1 49	
		<hr/>
		687 25
		<hr/>
		\$825 86

PAUPERS, OUT-DOOR RELIEF, GENERAL SUNDRIES.

Appropriation.....	\$39,000 00	
Additional Appropriation.....	9,359 95	
Receipts, App. Soldiers Relief....	77 80	
Sundry Persons.....	58 40	
	<hr/>	48,496 15

EXPENDITURES.

Ambulance Drivers :

To J. J. Cuff.....	60 00	
J. F. Geoghegan.....	784 29	
M. J. Gray.....	705 00	
M. F. McDermott.....	724 29	
G. B. McKenna.....	784 29	
J. McGlynn.....	784 29	
D. Shea.....	705 00	
	<hr/>	4,547 16

Ambulance Surgeon :

To Patrick E. Sullivan.....	600 00	
	<hr/>	600 00

Water, Lighting and Telephone:

App. Water Works.....	18 00	
Lowell Gas Light Co.....	38 79	
N. E. T. & T. Co.....	39 69	
W. U. Telegraph Co.....	1 00	
	<hr/>	97 48

Hay, Grain, etc. :

To George M. Foster.....	31 05	
W. P. Foye & Co.....	744 76	
Joseph Mullin.....	30 75	
Paul Vigeant & Co.....	64 86	
	<hr/>	871 42

Shoeing Horses :

To Cahill Bros.....	30 00	
M. J. Cahill.....	13 30	
Owen J. Carney.....	39 75	
Henry Reynolds..	43 55	
	<hr/>	126 60

Amount carried forward.....	<hr/>	\$6,242 66
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PAUPERS, OUT-DOOR RELIEF, GENERAL
SUNDRIES—Continued.

Amount brought forward..... \$6,242 66

Repairing Carriages and Harnesses :

To A. L. Butman.....	5 60	
Charles Crevier	51 15	
Donovan Harness Co.....	177 15	
H. J. O'Dowd.....	31 10	
Sawyer Carriage Co	112 36	
J. H. Sparks.....	25	
		377 61

Veterinary :

To A. W. Baker.....	6 00	
W. A. Sherman.....	3 00	
		9 00

Sundries :

App. School Houses, Labor	5 50	
“ Public Buildings, Carpenters, Painters, etc.....	186 10	
C. B. Coburn Co.....	2 23	
F. W. Cheeney & Co.....	3 00	
John P. Curley.....	3 90	
Daniel Gage.....	4 70	
George E. Hutchins.....	6 05	
Keefe Bros	4 20	
Merrimack Steam Laundry....	7 75	
McNabb Bros.....	25 41	
Joseph Mullin	402 12	
N. E. Steam Laundry.....	13 44	
T. Murphy.....	91 50	
J. H. Sparks	104 15	
		860 05
		7,489 32

Dispensary, Clerk :

To Edwin F. Mason.....	1,046 67	
		1,046 67

Dispensary, Supplies :

To Belvidere Family Drug Store..	75 00	
F. H. Butler & Co.....	3 00	
Concord Drug Store.....	55 09	

Amounts carried forward.....	\$133 09	\$8,535 99
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PAUPERS, OUT-DOOR RELIEF, GENERAL
SUNDRIES—Continued.

Amounts brought forward.....	\$133 09	\$8,535 99
Carter & Sherburne.....	1 27	
Clinton Mfg. Co.....	24 00	
Charles E. Carter.....	111 00	
A. W. Dows & Co.....	85 08	
Peter H. Donohue.....	26 00	
Ellingwood & Co.....	132 83	
Falls & Burkinshaw.....	50	
W. A. Ingham Co.....	17 86	
Albert Johnson.....	12 00	
J. B. A. Johnson.....	84 90	
R. J. Lang & Co.....	245 44	
Lowell Pharmacy.....	12 00	
E. A. McQuade.....	147 94	
Frank E. McNabb.....	7 25	
A. F. Story & Co.....	32 85	
Simpson & Rowland.....	15 65	
Zopher Co.....	25 91	
		<hr/> 1,115 57
Physicians :		
To John F. Boyle.....	228 30	
P. Brunelle.....	226 03	
Charles M. Frye.....	16 65	
T. J. Halloran.....	227 68	
A. J. Halpin.....	351 28	
J. E. Leary.....	208 92	
J. N. Marston.....	40 00	
O. P. Porter.....	285 61	
M. Trudeau.....	5 00	
		<hr/> 1,589 47
Stationery, Printing, etc. :		
To Butterfield Printing Co.....	4 25	
Courier-Citizen Co.....	4 50	
Dumas & Co.....	8 25	
T. H. Lawler.....	6 00	
Osmond Long.....	7 00	
G. C. Prince & Son.....	2 00	
Sampson, Murdock & Co.....	3 00	
F. A. M. Tobin.....	43 50	
		<hr/> 78 50
Amounts carried forward.....		<hr/> \$11,319 ⁵³

PAUPERS, OUT-DOOR RELIEF, GENERAL
SUNDRIES—Continued.

Amount brought forward..... \$11,319 53

Interments :

App. Public Buildings, Bills for	
Materials.....	47 50
App. Public Buildings, Labor.....	19 50
App. Public Buildings, Carpenters,	
Painters, etc.....	117 50
App. School Houses, Labor.....	81 00
App. School Houses, Work and	
Material	79 38
Joseph Albert.....	46 00
Amedee Archambault.....	34 00
Napoleon Bilodeau.....	4 00
Peter Davey.....	3 00
Horace Ela.....	6 00
John J. Higgins.....	11 50
J. H. McDermott	19 00
J. W. McKenna.....	2 00
Charles H. Molloy.....	49 00
J. J. O'Connell & Co.....	15 00
J. F. O'Donnell & Sons.....	31 00
Peter H. Savage.....	45 00
John A. Weinbeck.....	5 00

615 38

Support out of Almshouse:

City of Beverly.....	110 60
Boston.....	264 45
Cambridge.....	3 50
Chelsea.....	8 50
Fall River.....	74 40
Haverhill.....	105 65
Holyoke.....	98 05
Lawrence	583 70
Lynn	152 58
Malden.....	16 00
Newburyport	240 85
New Bedford.....	64 55
North Adams.....	43 30
Salem.....	536 54
Somerville.....	38 05

Amounts carried forward..... \$2,340 72 \$11,934 91

PAUPERS, OUT-DOOR RELIEF, GENERAL
SUNDRIES—Continued.

Amounts brought forward.....	\$2,340 72	\$11,934 91
Springfield	27 52	
Worcester	113 96	
Woburn.....	40 26	
Town of Andover	57 45	
Avon.....	207 50	
Blackstone.....	60 00	
Billerica.....	46 00	
Chelmsford.	331 69	
Clinton.....	84 26	
Salisbury.....	22 00	
Sturbridge.....	81 25	
Tewksbury	245 11	
Watertown	80 75	
	<hr/>	3,738 47
Hospitals, etc. :		
To Children's Hospital	58 00	
Children's Home.....	9 00	
Commonwealth of Mass.....	2,625 09	
Danvers Insane Hospital.....	640 72	
Hospital Cottages for Children	339 84	
Lowell Hospital Association..	327 36	
Mass. Hospital for Dipsoman-		
iacs and Inebriates.	276 33	
Mass. Hospital for Epileptics.	1,028 68	
Mass. School for the Feeble-		
minded.....	1,260 93	
Mass. State Sanatorium..	69 87	
Perkins Institute and Mass.		
School for the Blind.....	59 99	
St. John's Industrial School...	40 00	
St. John's Hospital.....	2,145 97	
St. Mary's Infant Asylum.....	8 00	
St. Peter's Orphan Asylum...	1,623 00	
Ststers of Cnarity, Lawrence..	510 30	
Sisters of Charity, Salem.....	142 50	
Worcester Insane Hospital....	175 52	
Working Boys' Home.....	80 00	
	<hr/>	11,421 10
Amount carried forward.....		\$27,094 48

PAUPERS, OUT-DOOR RELIEF, GENERAL
SUNDRIES—Continued.

Amounts brought forward.....		\$27,094 48
Cash Allowances.....	4,573 03	
	<hr/>	4,573 03
Provisions, Fuel, etc., on orders:		
App. Lowell City Hospital and Almshouse, Provisions...	8,636 00	
App. Lowell City Hospital and Almshouse, Sundries.....	1,311 00	
Boulger Shoe Co.....	7 25	
J. H. Beaulieu.....	3 00	
E. J. Barrett.....	99 00	
Margaret Blackburn.....	33 00	
Breen Bros.....	141 00	
W. H. Brown.....	21 00	
J. H. Burke.....	54 00	
Peter J. Brady.....	18 00	
George Campbell.....	9 00	
Central Cash Market.....	72 00	
Humphrey Coffey.....	105 00	
A. J. Conant.....	6 00	
J. H. Corbett.....	39 00	
C. G. Coburn.....	21 00	
J. A. Daly.....	39 00	
P. H. Daley.....	12 00	
D. J. Donovan.....	207 00	
C. F. Devno.....	12 00	
P. Duggan & Son.....	36 00	
Joseph Eno.....	12 00	
George Fairburn.....	9 00	
Family Supply Co.....	22 50	
H. J. Farrell.....	3 00	
Furlong Bros.....	72 00	
J. E. Freeman.....	174 00	
P. Gillogly.....	9 00	
Mrs. J. J. Gilbride.....	3 00	
Harry Gray.....	27 00	
M. W. Hale.....	36 00	
Harry Hanson.....	9 00	
J. S. Herrick.....	18 00	
Highland Grocery.....	6 00	
Amounts carried forward.....	<hr/> \$11,281 75	<hr/> \$31,667 51

PAUPERS, OUT-DOOR RELIEF, GENERAL
SUNDRIES—Continued.

Amounts brought forward.....	\$11,281 75	\$31,667 51
F. H. Hodges.....	24 00	
S. P. Hebert.....	21 00	
Keefe Bros.....	129 00	
H. J. Keyes.....	102 00	
Abraham Langlois.....	3 00	
P. Lanard...	3 00	
Michael Lafleur.....	3 00	
Lowell One Price Clothing Co.	2 38	
Thomas G. Lyons.....	27 00	
Anthony McCarron.....	3 00	
Merrimack Clothing Co.....	54 79	
P. Manning.....	27 00	
Ed. Martin.....	54 00	
J. J. McCann.....	36 00	
F. J. McCarthy.....	38 50	
John McCullough.....	-18 00	
M. McGlinchey.....	102 00	
T. F. McSorley.....	39 00	
J. H. Murray.....	42 00	
J. McGlinchey.....	63 00	
Malo Bros.....	3 00	
J. J. McCausland & Co.....	6 00	
Mrs. P. Manning.....	3 00	
M. Murphy.....	9 00	
N. E. Market....	6 00	
Wm. Nelligan.....	99 00	
O'Donnell Bros.....	3 00	
O'Sullivan Bros. Co.....	11 75	
Pawtucketville Cash Grocery.	9 00	
C. Picard.....	3 00	
S. Renaud, Jr.....	12 00	
J. B. Richardson & Sons.....	51 00	
Anthony Robinson.....	21 00	
J. F. Saunders.....	54 00	
J. R. Towle.....	3 00	
J. J. Stack.....	3 00	
John J. Sullivan.....	12 00	
W. W. Thibodeau.....	3 00	
Union Market.....	240 00	
Amounts carried forward...	\$12,625 17	\$31,667 51

PAUPERS, OUT-DOOR RELIEF, GENERAL
SUNDRIES—Continued.

Amounts brought forward.....	\$12,625 17	\$31,667 51
Walker & Thompson	63 00	
Charles E. Walsh.....	9 00	
	<hr/>	12,697 17
Sundries :		
To Adams Hardware & Paint Co.	15 00	
American Express Co.....	50	
Kate Bailey.....	13 00	
Mrs, E. M. Berry.....	34 50	
Belknap & Lamb.....	12 65	
B. R. Benner	25 00	
Boulger Shoe Co.....	2 00	
C. B. Coburn Co.....	15	
P. Coleman	5 50	
Daniel Danahy.....	4 00	
George Dion.....	2 00	
J. J. Donohoe.....	528 00	
Thomas Donohoe.....	6 00	
Mrs. R. A. Dunham.....	12 00	
Gilbride's.....	12 94	
Gilmore Electric Co	20 00	
Mrs. Gillick.....	19 00	
H. L. Gonzales.....	7 65	
P. Hickey.....	528 00	
Mrs. M. Kenyon.....	4 07	
Thomas G. Little.....	4 00	
A. Leblanc.....	503 15	
Lowell Coal Co.....	1,308 36	
Lowell Electric Light Corp...	40 05	
Libby Printing Co.	35 00	
A. W. Lewis & Co	44 31	
Mrs. James Lynch.....	100 00	
Joseph Mullin.....	10 80	
Morse Coach Co.	1 50	
O'Sullivan Bros. Co	1 25	
G. C. Prince & Son.....	2 00	
A. G. Pollard & Co.....	5 00	
John P. Quinn	40 00	
H. O. Robinson.....	15 20	
Flora Ross.....	3 00	
Amounts brought forward.....	<hr/> \$ 3,365 58	<hr/> \$44,364 68

PAUPERS, OUT-DOOR RELIEF, GENERAL
SUNDRIES—Continued.

Amounts brought forward	\$3,365 58	\$44,364 68
G. G. Read.....	9 00	
C. N. Rice & Co.....	1 00	
J. H. Sparks.....	2 00	
Daniel T. Sullivan.....	196 45	
Sunlight Shoe Store.....	9 00	
R. L. Stevens.....	20 00	
F. A. M. Tobin.....	17 50	
E. W. Trull.....	137 94	
M. G. Wight & Co.....	7 00	
Fannie S. White	366 00	
	<hr/>	4,131 47
		<hr/>
		\$48,496 15
		<hr/>

POLICE, SALARIES, POLICE BOARD AND CLERK.

Appropriation.....	\$5,000 00	
	<hr/>	
		\$5,000 00
		<hr/>

EXPENDITURES.

To Frank B. Dow, Chairman....	1,200 00	
Fisher H. Pearson.....	1,000 00	
Harry R. Rice.....	430 56	
Laforest Beals.....	569 44	
Joseph Smith, Clerk.....	1,800 00	
	<hr/>	\$5,000 00
		<hr/>

POLICE, SALARIES AND LABOR.

Appropriation.....	\$132,461 25	
Receipts, App. Care City Hall, Police Officer.....	1,006 50	
App. Law Salaries	1,200 01	
	<hr/>	\$134,667 76
		<hr/>

POLICE, SALARIES AND LABOR—Continued.

EXPENDITURES.

To William B. Moffatt, Supt.....	2,000 00	
William R. Kew, Deputy Supt.	1,500 00	
Redmond Welch, Deputy Supt.	1,500 00	
Michael J. Burns, Electrician.	1,500 00	
John E. Maguire, Constable..	906 25	
Lillie S. Cutler, Clerk	106 00	
Emma V. Vining, Clerk.....	468 00	
A. M. Wood.....	36 00	
Sundry Persons, Police Officers	123,794 96	
Sundry Persons, Pension.....	670 92	
	<hr/>	132,482 13
Transferred to General Treasury Fund		2,185 63
		<hr/>
		\$134,667 76
		<hr/>

POLICE, SUNDRIES.

Appropriation.....	\$5,500 00	
Additional Appropriation.....	1,600 00	
	<hr/>	\$7,100 00
		<hr/>

EXPENDITURES.

Water, Lighting and Telephone :		
App. Water Works.....	161 64	
Lowell Electric Light Corp...	270 63	
Lowell Gas Light Co	276 29	
N. E. T. & T. Co.....	316 13	
W. U. Tel. Co.....	1 91	
	<hr/>	1,026 60
Hardware, etc. :		
To E. P. Flanders & Co.....	8 40	
H. C. Girard	26 27	
Thompson Hardware Co.....	59 32	
	<hr/>	93 99
		<hr/>
Amount carried forward.....		\$1,120 59

POLICE, SUNDRIES—Continued.

Amount brought forward.....		\$1,120 59
Expenses of Offices :		
To John Freeman.....	1 10	
William B. Moffatt.....	186 89	
	<hr/>	187 99
Fuel :		
To John T. Brennan.....	1 50	
Edward Cawley.....	620 10	
Lowell Coal Co.....	451 32	
	<hr/>	1,072 92
Pipe Fittings, etc. :		
To Boutwell Bros.....	25 07	
W. A. Mack & Co.	18 00	
Pevey Bros.....	30 00	
D. H. Wilson & Co.....	4 00	
	<hr/>	77 07
Station Supplies :		
To Owen E. Brennan.....	6 60	
G. J. & D. Bradt.....	32 40	
Carleton & Hovey.....	10	
C. B. Coburn Co.....	16 40	
Ellingwood & Co.....	9 93	
Electric Gas Lighting Co.....	50 40	
Edes Mfg. Co.....	185 00	
James E. Freeman.....	6 15	
Daniel Gage.....	54 90	
Fred Howard.....	8 60	
C. F. Hoisington & Son.....	50	
Keefe Bros.....	85	
R. J. Lang & Co.....	85	
Mitchell, Wing & Co.....	3 75	
W. A. Maguire & Co.....	12 50	
Charles E. Perry & Co.....	123 30	
Simpson & Rowland.....	19	
S. W. Wiggin.....	2 00	
	<hr/>	514 42
Amount carried forward.....		<hr/> \$2.972 99

POLICE, SUNDRIES—Continued.

Amounts brought forward..... \$2,972 99

Stationery, Printing, etc. :

To J. Harry Boardman.....	1 50	
Buckland Printing Co.....	4 00	
Carter's Ink Co.....	2 20	
Courier-Citizen Co.....	222 05	
Daily Mail Publishing Co.....	16 50	
Dumas & Co.....	32 50	
J. M. Fellows.....	10 00	
J. H. B. Fogg.....	1 96	
Thomas H. Lawler.....	23 30	
Lepine & Co.....	12 60	
Lowell Sun.....	19 50	
National Publishing Co.....	3 00	
G. C. Prince & Son.....	210 78	
Sampson, Murdock & Co.....	12 00	
Smith Premier Typewriter Co.	3 50	
The Boston Book Co.....	2 00	
		577 39

Cloth, Buttons, Insignia, etc. :

To Rafael Mastrangialo.....	3 00	
A. G. Pollard & Co.....	13 75	
Nicholas Seroghan.....	2 12	
Waierbury Button Co.....	48 13	
Wendell Fay & Co.....	199 87	
		266 87

Furniture, Repairs, etc. :

To Gookin Bros.....	17 25	
L. W. Hawkes & Co.....	2 50	
O'Donnell & Gilbride Co.....	90	
		20 65

Hay, Grain, etc. :

To J. B. Cover & Co.....	137 33	
Charles Dumas & Co.....	2 70	
W. P. Foye.....	2 60	
Fred A. Fox.....	105 30	
George M. Foster..	185 52	
Joseph Mullin.....	60 75	
H. E. Noyes & Son.....	104 00	

Amounts carried forward..... \$598 20 \$3,837 90

POLICE, SUNDRIES—Continued.

Amounts brought forward.....	\$598 20	\$3,837 90
Edward W. Trull	113 40	
O. D. Wilder.....	6 95	
	<hr/>	718 55
Carriages, Harnesses and Repairing :		
To Robert Barris.....	25	
Donovan Harness Co.....	21 65	
Thomas J. Goyette	15 00	
J. H. Laporte.....	24 85	
H. J. O'Dowd.....	3 00	
Salois & Leith.....	214 35	
J. H. Sparks	25 00	
	<hr/>	304 10
Shoeing Horses :		
To M. J. Cahill	11 10	
Cahill Bros....	11 70	
Owen J. Carney.....	26 75	
John J. Donnelly.....	56 50	
	<hr/>	106 05
Laundering :		
To Lowell Laundry	5 83	
McNabb Bros.....	11 57	
	<hr/>	17 40
Transportation, Carriage hire, etc. :		
To American Express Co.....	4 35	
B. & M. R. R.....	22 35	
Man. & Con. Express Co.....	30	
Morse Coach Co.....	8 00	
N. Y. B. Despatch Express Co.	1 10	
N. Y., N. H. & H. R. R....	4 24	
	<hr/>	40 34
Sundries .		
App. Public Buildings, Carpenters,		
Painters, etc	10 11	
David Benoit....	4 00	
F. M. Bill & Co.....	1 00	
W. P. Brazer & Co.....	2 25	
M. J. Burns.....	6 20	
C. H. Clapp & Co.....	175 00	
	<hr/>	
Amounts carried forward	\$198 56	\$5,024 34

POLICE, SUNDRIES—Continued.

Amounts brought forward.....	\$198 56	\$5,024 34
J. B. Cover & Co.....	3 78	
Crown Studio.....	7 90	
O. P. Davis.....	5 00	
W. E. Decrow.....	49 62	
Derby & Morse.....	28 64	
William Downs.....	20 00	
Foote, Pierson & Co.....	5 00	
J. B. Goodwin.....	4 15	
B. J. Gagnon.....	4 00	
Kelty Bros.....	05	
Keefe & Horan.....	12 00	
Thomas F. Lacey.....	20 00	
Marion.....	55 00	
W. M. Morrison.....	3 75	
R. T. Mower.....	3 50	
Neostyle Co.....	5 00	
J. J. Norton.....	1 75	
Redding, Baird & Co.....	11 76	
Seaver Radford Co.....	5 00	
J. H. Sparks.....	8 00	
The Okinite Co.....	1,417 71	
Talbot Dye. & Chemical Co..	165 78	
Tucke & Parker.....	9 70	
H. H. Whitlock.....	5 00	
Waverly Hotel.....	21 00	
C. Zimmer.....	2 05	
W. Zimmer.....	1 30	
	<hr/>	2,075 00
		<hr/>
		7,099 34
Transferred to General Treasury Fund.....		66
		<hr/>
		7,100 00
		<hr/>

UNDERGROUND WIRES, POLICE DEPARTMENT.

Appropriation.....	\$2,000 00	
		<hr/>
		\$2,000 00
		<hr/>

UNDERGROUND WIRES, POLICE DEP'T.—Continued.

EXPENDITURES.

To W. E. Decrow.....	380 00	
H. C. Girard.....	11 40	
N. Y., N. H. & H. R. R....	5 32	
N. E. T. & T. Co.....	673 13	
Pevey Bros	1 25	
Salois & Leith	9 50	
Welch Bros.....	192 21	
	<hr/>	1,272 81
Balance to 1905.....		727 19
		<hr/>
		\$2,000 00
		<hr/>

PUBLIC BUILDINGS, SALARIES.

Appropriation.....	\$2,268 00	
	<hr/>	\$2,268 00
		<hr/>

EXPENDITURES.

To J. B. Conlon, Superintendent,	1,230 00	
John J. O'Connor, “	570 00	
Joseph F. Roarke, Clerk.....	468 00	
	<hr/>	\$2,268 00
		<hr/>

PUBLIC BUILDINGS, JANITOR AT POLICE STATION.

Appropriation.....	\$912 50	
	<hr/>	\$912 50
		<hr/>

EXPENDITURES.

App. Public Buildings, Carpenters,		
Painters, etc.....	145 00	
J. Donahue.....	767 50	
	<hr/>	\$912 50
		<hr/>

PUBLIC BUILDINGS, ASSISTANT JANITOR AT
POLICE STATION.

Appropriation.....	\$821 25	
	<hr/>	
		<u>\$821 25</u>

EXPENDITURES.

App. Public Buildings, Carpenters, Painters, etc.....	130 50	
Sundry Persons, Labor.....	688 47	
	<hr/>	
		818 97
Transferred to General Treasury Fund		2 28
		<hr/>
		<u>\$821 25</u>

PUBLIC BUILDINGS, JANITOR AT MEMORIAL
BUILDING.

Appropriation	\$702 00	
	<hr/>	
		<u>\$702 00</u>

EXPENDITURES.

App. Public Buildings, Carpenters, Painters, etc....	112 50	
Sundry Persons, Labor.....	589 50	
	<hr/>	
		<u>\$702 00</u>

PUBLIC BUILDINGS, CARPENTERS,
PAINTERS, ETC.

Appropriation.....	\$7,000 00	
	<hr/>	
Amount carried forward.....		\$7,000 00

PUBLIC BUILDINGS, CARPENTERS, PAINTERS,
ETC.—Continued.

Amount brought forward.....	\$7,000 00	
Receipts, App. Schools.....	77 52	
App. Paupers O. D. R. Gen'l Sundries	323 10	
App. Public Buildings, Almshouse Repairs	10 94	
App. Public Buildings, Repairing Palmer St. Engine House.....	389 18	
App. Public Buildings, Janitor at Police Station.....	145 00	
App. Public Buildings, Assistant Janitor at Police Station.....	130 50	
App. Public Health, Small Pox...	7 94	
“ “ Elections.....	66 02	
“ “ Police Sundries.....	10 11	
“ Public Buildings, Janitor at Memorial Building	112 50	
		8,272 81

EXPENDITURES.

To Sundry Persons as per pay roll	8,239 00	
Transferred to General Treasury Fund	33 81	
		<u>\$8,272 81</u>

PUBLIC BUILDINGS, BOARD OF HORSES.

Appropriation.....	\$1,000 00	
Additional Appropriation.....	267 96	
		<u>\$1,267 96</u>

EXPENDITURES.

To Owen J. Carney.....	31 50	
O. P. Davis.....	306 42	
T. J. McDermott.....	198 98	
P. F. McNulty.....	194 31	
Amount carried forward.....	\$731 21	

PUBLIC BUILDINGS, BOARD OF HORSES—Continued.

Amount brought forward.....	\$ 731 21	
Morse Coach Co.....	63 57	
J. H. Sparks.....	470 16	
	<hr/>	1,264 94
Transferred to General Treasury Fund		3 02
		<hr/>
		\$1,267 96
		<hr/>

PUBLIC BUILDINGS, ELECTRIC POWERS AT SHOP.

Appropriation.....	\$300 00	
	<hr/>	\$300 00
		<hr/>

EXPENDITURES.

To Lowell Electric Light Corp...	254 76	
Transferred to General Treasury Fund	45 24	
	<hr/>	\$300 00
		<hr/>

PUBLIC BUILDINGS, WORK NOT DONE BY
THE DEPARTMENT.

Appropriation.....	\$5,000 00	
Additional Appropriation.....	87 16	
	<hr/>	\$5,087 16
		<hr/>

EXPENDITURES.

Hardware :		
To H. C. Girard.....	9 98	
	<hr/>	
Amount carried forward.....		\$9 98

PUBLIC BUILDINGS, WORK NOT DONE BY THE
DEPARTMENT—Continued.

Amount brought forward.		\$ 9 98
Carriages, Harnesses, Repairs :		
To E. P. Bryant	60	
A. L. Butman	2 50	
Donovan Harness Co.....	255 35	
F. B. Hill & Co.....	91 30	
P. A. MacKenzie.....	2 60	
Sawyer Carriage Co	133 90	
J. H. Sparks	3 20	
J. H. Swett	10 00	
	<hr/>	499 45
Shoeing Horses :		
To H. Baron & Co.....	2 75	
James Blakely.....	3 65	
Owen J. Carney.....	224 50	
A. D. Mitten.....	21 95	
Henry Reynolds.....	12 50	
	<hr/>	265 35
Mason Work, Plastering, Roofing, etc.:		
To J. W. Bennett & Co.....	62 45	
James Burns & Son.....	10 50	
Matthias F. Connor	156 77	
B. F. Crosby & Co.....	119 43	
P. Conlon	98 14	
C. F. George & Co.....	22 05	
P. H. Meehan & Co.....	175 50	
D. M. Prescott	28 99	
Samuel E. Snow.....	4 89	
Walsh & Co.....	37 95	
James Walwood.....	15 00	
	<hr/>	731 67
Plumbing, Pipe Fittings, etc.:		
To H. R. Barker Mfg. Co	267 14	
John H. Barry.....	102 07	
Carroll Bros.....	92 08	
E. J. Carroll & Co.	38 64	
T. Costello & Co.....	84 15	
Daniel Cushing & Co.....	6 60	590 68
Amounts carried forward.....	\$590 68	\$1,506 45

PUBLIC BUILDINGS, WORK NOT DONE BY THE
DEPARTMENT—Continued.

Amounts brought forward.....	\$590 68	\$1,506 45
P. J. Custy & Co.....	19 15	
James D. Danahy.....	75 57	
Harry S. Drury.....	184 32	
E. F. Farrell.....	118 17	
Farrell & Conaton.....	116 17	
H. J. Fitzpatrick.....	133 43	
Fitzpatrick & Welch.....	417 61	
Charles E. Gee.....	2 80	
George P. Green.....	292 00	
George Hanaford & Co.....	43 10	
D. J. Leary.....	285 79	
W. A. Mack & Co.....	122 30	
Edward Meloy.....	70 15	
William H. McElholm.....	22 35	
Scannell Boiler Works.....	7 40	
Welch Bros.....	457 40	
H. H. Wilder & Co.....	18 38	
	<hr/>	2,976 77

Sundries :

To American Express Co.....	65	
H. Baron & Co.....	8 75	
J. E. Conant & Co.....	6 00	
Martin Carey.....	2 50	
James B. Conlon.....	5 00	
O. P. Davis.....	21 43	
Derby & Morse.....	2 80	
W. A. Eaton.....	45 50	
Eagle Electric Co.....	147 71	
Gookin Bros.....	7 50	
Arthur L. Knapp.....	5 35	
A. W. Lewis & Co.....	58 20	
Meserve's L. & B. Express Co.	25	
Enoch Mills.....	36 00	
T. J. McDermott.....	56 80	
McNabb Bros.....	1 50	
N. E. T. & T. Co.....	1 48	
N. E. Electric & Supply Corp.	2 07	
Pratt & Forrest.....	2 80	

Amounts carried forward.....	\$412 29	\$4,483 22
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PUBLIC BUILDINGS, WORK NOT DONE BY THE
DEPARTMENT—Continued.

Amounts brought forward.....	\$ 412 29	\$4,483 22
Amasa Pratt & Co.....	109 20	
Rice & Co.....	5 50	
W. A. Sherman.....	5 00	
J. H. Sparks	57 60	
Tucke & Parker.....	14 35	
	<hr/>	603 94
		<hr/>
		\$5,087 16
		<hr/>

PUBLIC BUILDINGS, BILLS FOR MATERIALS.

Appropriation.....	\$400 00	
Receipts, App. Paupers O. D. R.		
General Sundries	47 50	
App. Rifle Range Improvement at		
Range	2 10	
	<hr/>	\$4,049 60
		<hr/>

EXPENDITURES.

Painters and Electricians Supplies :		
To Adams Hardware & Paint Co.	62 87	
Sylvester Bean.....	472 90	
C. B. Coburn Co.....	348 31	
P. Dempsey & Co.....	116 41	
A. L. Kittredge & Co.....	145 71	
	<hr/>	1,146 20
Hardware, etc. :		
To Adams Hardware & Paint Co.	32 90	
H. R. Barker Mfg. Co..	9 00	
W. T. S. Bartlett.....	14 15	
Owen E. Brennan.....	39 70	
F. W. Cheney & Co.....	2 75	
E. P. Flanders & Co.....	42 00	
	<hr/>	
Amounts carried forward	\$140 50	\$1,146 20

PUBLIC BLD'G'S, BILLS FOR MATERIALS—Continued.

Amounts brought forward.....	\$140 50	\$1,146 20
Henry C. Girard.....	7 84	
N. D. Lafleur.....	90	
W. A. Mack & Co.....	10 05	
Peter H. Savage.....	42 25	
Thompson Hardware Co.....	74 58	
William Zimmer.....	25	
		276 37
Stationery, Postage, Printing, etc. :		
To Buckland Printing Co.....	42 35	
Butterfield Printing Co.....	9 00	
T. H. Lawler.....	7 60	
G. C. Prince & Son.....	28 00	
Joseph F. Roarke.....	1 00	
Sampson, Murdock & Co.....	3 00	
		90 95
Lumber :		
To Burnham & Davis.....	275 00	
Burnham & Davis Lumber Co.....	90 96	
Pratt & Forrest.....	27 37	
Amasa Pratt & Co.....	198 72	
William H. Wiggin.....	880 78	
		1,472 83
Sundries :		
App. Water Works.....	26 10	
American Express Co.....	25	
Art Metal Construction Co.....	165 00	
B. & M. R. R.....	40 90	
Owen J. Carney.....	330 00	
Edward Cawley.....	93 87	
John J. Doherty & Co.....	1 96	
Donovan Harness Co.....	101 00	
Farrell & Conaton.....	3 00	
Fitzpatrick & Welch.....	64 00	
Gilbride's.....	14 25	
Kelty Bros.....	2 62	
C. F. Keyes.....	88 00	
Middlesex Machine Co.....	1 40	
N. E. T. & T. Co.....	20	
Henry J. O'Dowd.....	50 00	
Amounts carried forward.....	\$982 55	\$2,986 35

PUBLIC BLD'G'S, BILLS FOR MATERIALS—Continued.

Amount brought forward.....	\$982 55	\$2,986 35
A. G. Pollard & Co.....	11 82	
J. H. Sparks.....	27 00	
Daniel T. Sullivan.....	12 90	
Talbot Dye. & Chemical Co ..	90	
Waverly Hotel.....	21 00	
Henry F. Whiting....	1 00	
		<u>1,057 17</u>
		4,043 52
Transferred to General Treasury		6 08
Fund		<u>\$4,049 60</u>

REPAIRING PALMER ST. ENGINE HOUSE.

Appropriation.....	\$1,500 00	
		<u>\$1,500 00</u>

EXPENDITURES.

Labor :		
To Sundry Persons as per pay roll	346 01	
App. Public Buildings, Carpenters,		
Painters, etc.....	263 22	
		<u>609 23</u>
Painters Supplies :		
App. Pnblic Buildings, Carpenters,		
Painters, etc.....	125 96	
Adams Hardware & Paint Co.	38 48	
Sylvester Bean... ..	234 02	
		<u>398 46</u>
Lumber:		
To Amasa Pratt Co.....	156 29	
		<u>156 29</u>
Amount carried forward.....		\$1,164 98

REPAIRING PALMER ST. ENGINE HOUSE—Continued.

Amount brought forward.....		\$1,164 98
Pipe Fittings, Plumbings, etc. :		
To W. A. Mack & Co.....	109 90	
Welch Bros.....	1 70	
	<hr/>	111 60
Mason Work and Material:		
To P. Conlon.....	3 40	
B. F. Crosby & Co.....	177 20	
	<hr/>	180 60
Sundries :		
To H. C. McOsker	43 82	
	<hr/>	43 82
		<hr/>
		<u>\$1,500 00</u>

NEW BOILER AT BRANCH ST. ENGINE HOUSE.

Appropriation.....	\$500 00	
	<hr/>	
		<u>\$500 00</u>

EXPENDITURES.

To Sundry Persons for Labor....	53 72	
E. J. Carroll & Co	29 00	
P. Conlon.....	69 90	
Fitzpatrick & Welch.....	347 36	
	<hr/>	499 98
Transferred to General Treasury Fund		02
		<hr/>
		<u>\$500 00</u>

PAINTING CITY HALL, INTERIOR AND EXTERIOR.

Appropriation.....	\$500 00	
	<hr/>	
		<u>\$500 00</u>

PAINTING CITY HALL, INTERIOR AND EXTERIOR—Continued.

EXPENDITURES.

To Sundry Persons for Labor....	229 67	
App. School Houses, Work and Material.....	10 33	
Adams Hardware & Paint Co.	36 60	
Walter Coburn & Co.....	45	
Larsen & Bentley.....	1 50	
		<hr/>
		278 55
Transferred to General Treasury Fund.....		221 45
		<hr/>
		\$500 00
		<hr/>

RESETTING AND REPAIRING BOILER AT CITY HALL.

Appropriation.....	\$1,500 00	
		<hr/>
		\$1,500 00
		<hr/>

EXPENDITURES.

To Sundry Persons, for Labor....	192 87	
H. R. Barker Mfg. Co.....	355 31	
P. Conlon.....	821 20	
D. J. Leary.....	24 00	
Scannell Boiler Works.....	106 60	
		<hr/>
		1,499 98
Transferred to General Treasury Fund.....		02
		<hr/>
		\$1,500 00
		<hr/>

ALMSHOUSE REPAIRS.

Appropriation.....	\$2,500 00	
		<hr/>
		\$2,500 00
		<hr/>

ALMSHOUSE, REPAIRS—Continued.

EXPENDITURES.

Labor :

To Sundry Persons as per pay roll.	186 68	
	<hr/>	186 68

Lumber :

App. Public Buildings, Carpenters, etc.....	10 94	
App. School Houses, Work and Material.....	11 25	
Wm. H. Wiggin.....	108 99	
	<hr/>	131 18

Mason Work and Material :

To P. Conlon.....	63 68	
Union Paving Co.....	204 75	
	<hr/>	268 43

Hardware, Pipe Fittings, etc. :

To John H. Barry.....	185 01	
Harry S. Drury.....	181 72	
James D. Danahy	48 23	
Fitzpatrick & Welch.....	345 90	
George P. Green.....	154 09	
Thompson Hardware Co.....	5 40	
Welch Bros.....	238 08	
	<hr/>	1,158 43

Sundries :

To A. W. Lewis & Co.....	716 73	
H. C. McOsker.....	38 36	
	<hr/>	755 09

2,499 81

Transferred to General Treasury
Fund

19

\$2,500 00

BATH ROOMS AT FLETCHER AND BRANCH ST. ENGINE HOUSE.

Appropriation	\$800 00	
Additional Appropriation.....	85	
	<hr/>	<hr/>
		\$800 85

EXPENDITURES.

To Sundry Persons as per pay roll	180 25	
E. J. Carroll & Co	298 00	
Harry S. Drury.....	296 00	
Pratt & Forrest.....	18 00	
W. H. Wiggin.....	8 60	
	<hr/>	<hr/>
		\$800 85

BATH ROOM, CLOSETS AND NEW FLOOR AT FOURTH ST. ENGINE HOUSE.

Appropriation	\$600 00	
	<hr/>	<hr/>
		\$600 00

EXPENDITURES.

To Sundry Persons for Labor....	278 97	
Adams Hardware & Paint Co.	11 90	
Davis & Sargent Lumber Co..	19 40	
George P. Green.....	272 95	
W. A. Mack & Co	6 19	
Amasa Pratt & Co.....	10 43	
	<hr/>	<hr/>
		599 84
Transferred to General Treasury Fund		16
		<hr/>
		\$600 00

SCHOOLS.

Appropriation.....	\$280,000 00	
Additional Appropriation.....	19,519 19	
Receipts, overdrafts, Elizabeth B. Daum.....	10 00	
F. M. Lancey.....	3 60	
	<hr/>	\$299,532 79

EXPENDITURES.

To A. K. Whitcomb, Supt.....	3,000 00	
Assistants in Supt.'s Office ...	1,159 00	3,000 00
Truant Officers.....	4,100 00	1,159 00
	<hr/>	4,100 00

Teachers :

In High School.....	34,883 35	
Grammar Schools	82,619 26	
Primary Schools.	71,248 47	
Training School.....	11,451 81	
Kindergartin.....	12,473 50	
Drawing	1,350 00	
Music	1,944 00	
Sewing	791 00	
	<hr/>	216,761 39

Books :

To American Book Co.....	1,227 91	
American Library Co.....	15 00	
Allyn & Bacon.....	35 75	
D. Appleton & Co	6 42	
Atkinson & Mentzer.....	3 00	
Edward E. Babb & Co.....	3,139 66	
C. C. Birchard & Co.....	16 80	
T. H. Castor & Co.....	8 00	
Century Co.....	1 10	
Commercial Text Book Co....	1 70	
Ginn & Co	2,293 63	
D. C. Heath & Co.....	430 78	
Henry Holt & Co	69 67	
Houghton, Mifflin & Co.....	53 98	
Harvard University.....	7 50	
	<hr/>	

Amounts carried forward..... \$7,310 90 \$225,020 39

SCHOOLS—Continued.

Amounts brought forward.....	\$7,310 90	\$225,020 39
J. B. Lippincott Co.....	302 00	
Little, Brown & Co.....	8 00	
Maynard, Merrill & Co.....	183 55	
Munn & Co.....	7 00	
W. L. Musick Publishing Co.	90	
Macey-Wernicke Co.....	42	
W. L. Mason.....	60	
Isaac Pitman & Sons.....	68	
Powers & Lyons.....	1 58	
Practical Text Book Co.....	37 20	
Rand, McNally & Co.....	11 20	
F. E. Reed Co.....	226 80	
Richardson, Smith & Co.....	342 58	
Scientific American Club.....	76 00	
Charles Scribners Sons.....	92	
Silver, Burdett & Co.....	221 55	
Snow & Farnham.....	82 80	
Christopher Sower Co.....	22 00	
Scott, Foresman & Co.....	90 00	
Thompson, Brown & Co.....	175 00	
University Publishing Co.....	18 00	
University of Chicago Press...	1 62	
Edgar Werner Publishing and Supply Co.....	60	
Whitcomb & Barrows.....	1 20	
John Wylie & Sons.....	1 12	
		9,124 22
Blank Books, Stationery, Printings, etc. :		
To Adams, Cushing & Foster....	17 50	
Army and Navy Journal.....	20 50	
Baker Printing Co.....	16 00	
Buckland Printing.....	21 50	
Butterfield Printing Co.....	428 00	
Cabinet Letter Press Co.....	6 00	
Courier-Citizen Co.....	368 55	
A. B. Dick & Co.....	43 45	
Dumas & Co.....	265 80	
Daily Mail Publishing Co.....	6 95	
J. F. Fellows.....	1 25	
Amounts carried forward... ..	\$1,195 50	\$234,144 61

SCHOOLS—Continued.

Amounts brought forward.....	\$1,195 50	\$234,144 61
F. J. Flemings.....	173 63	
J. L. Hammett Co.....	129 65	
C. Howard Hunt Pen Co.....	16 25	
Holden Patent Book Cover Co.	128 43	
Harry Kittredge.....	21 10	
Library Bureau.....	4 00	
Thomas H. Lawler.....	1,315 26	
Libby Printing Co.....	36 60	
Osmond Long.....	148 70	
Lowell Sun.....	3 50	
Lawler Printing Co.....	48 00	
Lowell Bill Posting Co.....	12 00	
Milton Bradley Co.....	355 06	
Frederick Post Co.....	9 72	
G. C. Prince & Son.....	1,891 86	
M. C. Olson Mfg. Co.....	7 68	
C. E. Robinson.....	10 00	
Remington Typewriter Co....	50	
Sampson, Murdock & Co.....	9 00	
Sunday Telegram.....	1 88	
F. A. M. Tobin.....	84 00	
Union Printing Co.....	7 95	
Underwood Typewriter Co....	5 00	
M. G. Wight & Co.....	190 81	
Zopher Co.....	18 00	
		5,824 08
Hardware etc. :		
To Adams Hardware & Paint Co.	72 50	
W. T. S. Bartlett.....	46 18	
J. C. Bennett.....	22 74	
Boutwell Bros.....	7 63	
John Callaghan.....	27 83	
H. E. Carlisle.....	13 60	
F. W. Cheney & Co.....	67 50	
E. P. Flanders & Co.....	3 98	
H. C. Girard.....	71 92	
C. F. Hosington.....	12 80	
W. A. Ingham Co.....	25 00	
N. D. Lafluer.....	11 20	
W. A. Mack & Co.....	6 95	
H. B. Shattuck & Son.....	25	
Amounts carried forward.....	\$390 08	\$239,968 69

SCHOOLS—Continued.

Amounts brought forward.....	\$390 08	\$239,968 69
Smith & Lawrence.....	4 28	
Thompson Hardware Co	93 99	
	<hr/>	488 35
Lumber :		
To Pratt & Forrest	13 29	
Wm. H. Wihgin	17 35	
	<hr/>	30 64
Repairing Electrical Apparatus :		
To Derby & Morse	13 60	
Eagle Electric Co	84 30	
Harry F. Harding.....	73 70	
N. E. Electric & Supply Corp	44 28	
Tucke A Parker.....	518 88	
	<hr/>	734 76
Pipe, Fittings etc. :		
To H. R. Barker Mf'g Co.....	75	
W. W. Carey.....	2 40	
Carroll Bros.....	12 30	
Charles E. Gee	1 00	
George P. Green.....	6 35	
W. H. Hope & Co....	2 50	
Lowell Machine Shop.....	7 75	
H. F. Otash.....	7 14	
Pevey Bros.....	4 05	
A. L. Ready & Son.....	38 40	
Washburn Shops of the Wor-		
cester Polytechnic Institute	12 93	
Welch Bros.....	14 75	
D. E. Whiton Machine Co ...	7 00	
C. Zimmer.....	4 10	
W. Zimmer.....	15 00	
	<hr/>	136 42
Painters Supplies :		
To Adams Hardware & Paint Co.	96 48	
C. B. Coburn Co.....	253 31	
Heaney Mfg. Co.....	1 00	
A. L. Kittredge & Co.....	280 34	
W. W. Morrison.....	1 25	
W. H. Spaulding & Co.....	6 00	
	<hr/>	638 38
Amount carried forward.....		\$241,997 24

SCHOOLS—Continued.

Amount brought forward..... \$241,997 24

Laboratory Supplies :

To Bausch & Lomb Optical Co..	54 70
Walter Coburn & Co.....	10 56
Carleton & Hovey.....	1 75
P. Dempsey & Co.....	2 75
Eimer & Amend.....	24 01
L. E. Knott Apparatus Co....	85 89
Mitchell, Wing & Co.....	26 46
Geo. Richard & Sons.....	8 00
Simpson & Rowland.....	49 95
Sulpho Napthol Co.....	75 00
Talbot Dye. & Chemical Co..	16 57

355 64

Furniture, Cloth, etc. :

To Adams & Co.....	45 50
Amberg File and Index Co....	2 70
Bon Marche.....	11 00
P. J. Custy & Co.....	31 50
Gookin Bros.....	64 50
Gilbride's.....	20 50
J. S. Hastings	3 13
J. T. Henry & Co.....	7 50
A. L. Kittredge & Co.....	24 49
H. C. McOsker.....	60 00
O'Donnell & Gilbride Co.....	43 20
O'Donnell Dry Goods Co.....	4 34
A. E. O'Heir.....	17 00
A. A. Parent	2 25
A. G. Pollard & Co.....	111 10
J. E. Post.....	5 70
Robertson & Co.....	8 50
J. E. Shanley & Co	46 32

509 23

Music :

To Hibbard's Orchestra.....	19 00
Blanche B. Hunking.....	20 00
J. H. Jeannotte.....	60 00
Middlesex Orchestra.....	27 00

Amounts carried forward..... \$126 00 \$242,862 11

SCHOOLS—Continued.

Amounts brought forward.....	\$126 00	\$242,862 11
National Band.....	75 00	
W. A. Owen.....	12 50	
Sophie M. White.....	18 75	
	<hr/>	232 25
Musical Supplies :		
To Irvin A. Foote	135 00	
Peter Gallagher	18 50	
Ring Music Co.....	32 00	
M. Steinert & Sons Co.....	11 82	
	<hr/>	197 32
Repairing Carriages and Harnesses :		
To F. B. Hill & Co.....	51 65	
Sawyer Carriage Co.	102 46	
J. H. Sparks	8 30	
	<hr/>	162 41
Shoeing Horses and Board of Horses :		
To J. J. Donnelly	53 25	
J. H. Sparks	524 93	
	<hr/>	578 18
Fuel :		
To John Brady	215 00	
John T. Brennan.....	274 00	
Edward Cawley.....	7,068 65	
Lowell Coal Co	12,572 04	
Joseph Mullen	71 10	
Frank Reilly	300 25	
D. T. Sullivan	7 00	
	<hr/>	20,508 04
Lighting and Power:		
Lowell Electric Light Corp...	1,745 06	
Lowell Gas Light Co.....	588 52	
	<hr/>	2,333 58
Telephone :		
To N. E. T. & T. Co.....	21 26	
W. U. Telegraph Co.....	2 38	
	<hr/>	23 64
Amount carried forward		\$266,897 53

SCHOOLS—Continued.

Amount brought forward.....		\$266,897 53
Water :		
App. Water Works.....	1,195 11	
	<hr/>	1,195 11
Transportation, Carriage hire, etc. :		
To American Express Co.....	28 46	
B. & M. R. R.....	12 89	
B. & N. St. Ry.....	175 00	
Conway Transfer Co.....	14 44	
Hill Transfer Co.....	70 25	
Man. & Con. Express Co.....	25 05	
N. Y. & B. Des. Express Co..	9 90	
J. H. Sparks.....	7 90	
	<hr/>	343 89
Sundries :		
App. Public Buildings, Carpenters, Painters, etc.....	45 85	
App. Public Buildings, Labor.....	31 67	
App. School Houses, Labor.....	834 35	
App. School Houses, Work and Material.....	801 64	
App. School Houses, Sundries....	87 88	
W. P. Brazer & Co.....	5 00	
A. D. Brigham.....	11 25	
Patrick Brady.....	4 50	
F. M. Bill & Co.....	1 75	
B. W. Carey.....	50 00	
Charles F. Carr.....	2 50	
Clinton Mfg. Co.....	59 48	
Centralville Millinery Store...	25 00	
Carter, Rice & Co.....	27 75	
John J. Cluin.....	99 50	
John P. Curley.....	40	
P. P. Caproni & Bro.....	10 00	
E. S. Colton.....	52 75	
John Cross.....	46 75	
Catherine H. Coggeshall.....	12 00	
Dodge & Co.....	3 75	
Joseph A. Davis.....	5 00	
Mary Delaney.....	2 00	
James E. Donnelly.....	9 15	
	<hr/>	
Amounts carried forward.....	\$2,229 92	\$268,436 53

SCHOOLS—Continued.

Amounts brought forward.....	\$2,229 92	\$268,436 53
Michael Finnegan	1 25	
W. H. P. Faunce.....	75 00	
Gilmore Mfg. Co.....	10 14	
H. L. Gonzales	2 00	
George H. Gage.....	21 75	
A. P. Goodhue.....	15 00	
R. A. Griffiths.....	1 00	
Grant Jewelry Co	18 00	
Percey D. Gibson.....	10 50	
Miss Hard's School.....	1 70	
C. F. Hatch Co.....	20 90	
E. M. Hunt.....	5 80	
George E. Hutchins	19 73	
E. F. Hathaway.....	1 25	
Thomas Hannafin.....	1 50	
C. H. Hanson & Co	177 20	
C. I. Hood & Co.....	16 20	
Keuffel & Essex Co.....	19 20	
A. L. Kittredge & Co.....	4 87	
Kelty Bros.....	95	
D. P. Knowlton.....	2 50	
M. Lahue & Co.....	2 23	
Florence M. Lancey.....	7 20	
Lowell Wall Paper Co.....	64 60	
Lowell Rubber Co.....	61	
Carolyn H. Locke.....	52	
D. Lovejoy & Son.....	1 00	
Merrimack Mfg. Co.....	100 00	
McKissock Steam Carpet Clean- ing Works.....	1 70	
John Mack	30 00	
George F. Maguire.....	4 00	
Clarence Mahoney.....	23 90	
Murphy, Leavans & Co.....	55 80	
Middlesex Women's Club.....	25 00	
Middlesex County Truant School.....	2,794 62	
Middlesex North Agricultural Society	15 00	
R. T. Mower.....	6 00	
Amounts carried forward	\$5,808 54	\$268,436 53

SCHOOLS—Continued.

Amounts brought forward.....	\$5;808 54	\$268,436 53
McNabb Bros.....	3 32	
Wm. McElwain....	72 43	
H. C. McOsker.....	103 68	
A. C. McClurg Co	85	
Oliver Typewriter Co.....	120 00	
Rowena Palmer.....	25 00	
Horace Partridge & Co.....	6 00	
Myron C. Pease.....	161 20	
Isaac Petinger & Sons.....	98	
Pittsburgh Plate Glass Co....	2 12	
Powers & Lyons.....	70	
William Read & Sons.....	6 25	
Harry Raynes.....	1 50	
John Scott.....	3 75	
D. T. Sullivan.....	21 00	
J. A. Shanley.....	22 95	
James Stanley.....	19 25	
Standard Electric Time Co....	6 05	
Smith Premier Typewriter Co.	15 53	
Smith & Lawrence.....	2 80	
Simpson & Rowland.....	28 00	
F. R. Strout.....	1 50	
George F. Sturtevant.....	35 75	
Taylor Roofing Co.....	15 00	
A. S. Thompson.....	175 00	
Underwood Typewriter Co...	1 68	
Mrs. N. L. Wheeler.....	44 75	
W. R. Waterman	7 00	
A. C. Wheelock.....	216 00	
M. F. Wood.....	1 35	
Whittet & Co.....	5 00	
A. K. Whitcomb.....	65 40	
H. F. Whiting.....	23 80	
A. E. Winship.....	75 00	
C. Zimmer.....	7 80	
W. Zimmer.....	60 85	
	<hr/>	7,048 98
Amount carried forward.....		\$275,485 51

SCHOOLS—Continued.

Amount brought forward.....		\$275,485 51
Evening Schools :		
To Sundry Persons for Services as Teachers.....	15,808 00	
Sundry Persons for Services as Janitors.....	1,911 75	
	<hr/>	17,719 75
Books, Stationery, etc. :		
To American Book Co.....	11 52	
Edward E. Babb & Co.....	135 00	
Baker Printing Co.....	4 75	
Boston Bank Note Co.....	45 00	
Butterfield Printing Co.....	5 50	
Courier-Citizen Co.....	67 50	
Ginn & Co.....	25 00	
Gregg Publishing Co.....	25 25	
D. C. Heath & Co.....	248 34	
Harry C. Kittredge.....	3 05	
Lawler Printing Co.....	42 00	
Thomas H. Lawler.....	13 75	
G. C. Prince & Son.....	13 00	
Charles Scribners Sons.....	12 00	
F. A. M. Tobin.....	8 80	
	<hr/>	660 46
Lighting :		
To Lowell Electric Light Corp...	422 66	
Lowell Gas Light Co.....	792 54	
	<hr/>	1,215 20
Sundries :		
To Adams Hardware & Paint Co.	49 30	
John Brady	6 00	
Paul R. Burtt.....	10 00	
Currier-Citizen Co.....	3 00	
P. J. Custy & Co.....	9 00	
Samuel Walter Foss.....	25 00	
Hibbard's Orchestra	27 00	
N. D. Lafleur.	1 10	
Amasa Pratt & Co.....	6 34	
James A. Shanley.....	15 75	
Thompson Hardware Co.....	1 50	156 99
Zopher Co.....	3 00	
	<hr/>	
Amount carried forward.....		\$295,237 91

SCHOOLS—Continued.

Amount brought forward.....		\$295,237 91
Drawing Schools :		
To Sundry Persons for Services as Teachers	3,998 50	
		<u>3,998 50</u>
Paints, Plaster, Oil, etc. :		
To Adams Hardware & Paint Co.	10 92	
P. P. Caproni & Bro.....	16 70	
Edward Cawley.....	3 00	
		<u>30 62</u>
Lighting :		
To Lowell Electric Light Corp....	235 86	
		<u>235 86</u>
Electric Supplies :		
To Tucke & Parker.....	2 62	
		<u>2 62</u>
Sundries :		
To F. W. Farnham.....	4 00	
Gilbride's.....	4 50	
Libby Printing Co.....	3 25	
George F. Sturtevant	1 38	
Tucke & Parker	14 15	27 28
		<u>\$299,532 79</u>

SCHOOL HOUSES, LABOR.

Appropriation.....	\$10,500 00	
Receipts, App. Schools	834 35	
" Rifle Range Repairs	4 66	
" Health Office.....	11 51	
" Paupers, O. D. R.		
General Sundries	86 50	
" Inspector of Wires..	183 42	
		<u>\$11,620 44</u>

EXPENDITURES.

To Sundry Persons for Labor....	11,580 19	
Transferred to General Treasury Fund	40 25	
		<u>\$11,620 44</u>

SCHOOL HOUSES, JANITORS.

Appropriation.....	\$36,313 33	
Additional Appropriation.....	4,296 78	
	<hr/>	\$40,610 11
		<hr/>

EXPENDITURES.

To Sundry Persons for Services as Janitors.....	40 606 73	
Transferred to General Treasury Fund	3 38	
	<hr/>	\$40,610 11
		<hr/>

SCHOOL HOUSES, WORK NOT DONE BY DEPARTMENT AND BILLS FOR MATERIALS.

Appropriation.....	\$9,000 00	
Additional Appropriation.....	1,471 01	
Receipts, App. Public Buildings, Almshouse Repairs.....	11 25	
App. Public Buildings, Paint- ing City Hall.....	10 33	
App. Schools	889 52	
App. Rifle Range, Improve- ments.....	39 33	
App. O. D. R. General Sun- dries.....	79 38	
App. Assessors.....	61	
App. Heating, Sundries.....	41 38	
App. Sanitary Improvements in Sundry School Houses	13 76	
App. Four-room Building to Relieve Highland School.	33 45	
	<hr/>	\$11, 590 02
		<hr/>

SCHOOL HOUSES, WORK NOT DONE BY DEPARTMENT AND BILLS FOR MATERIALS—Continued.

EXPENDITURES.

Paints, Oils, etc. :

To Adams Hardware & Paint Co.	186 75	
Sylvester Bean.....	45 05	
C. B. Coburn Co.....	133 53	
F. H. Griffin & Co.....	50 00	
Smith & Lawrence.....	49 32	
		<hr/>
		\$464 65

Mason Work and Material, Roofing, etc. :

To J. W. Bennett Co	31 58	
James Burns & Son	38 04	
P. Conlon.....	389 37	
Matthias F. Connor.....	302 50	
B. F. Crosby & Co	855 05	
H. P. Doherty.....	819 92	
W. H. Fuller.....	38 00	
C. F. George & Co.....	65 89	
Isaac Jalbert	83 91	
P. H. Meehan & Co.....	775 40	
P. O'Hearn.....	36 19	
John A. Simpson.....	10 00	
Staples Bros. Co.....	258 52	
Samuel E. Snow.....	34 40	
		<hr/>
		3,738 77

Plumbing, Pipe Fittings, etc.:

To H. R. Barker Mfg Co.....	122 10	
John H. Barry.....	137 85	
Carroll Bros.....	119 13	
E. J. Carroll & Co.....	35 35	
Central Plumbing Co.....	30 47	
T. Costello & Co.....	875 05	
James D. Danahy	142 34	
E. W. Devaney	42 60	
Harry S. Drury.....	381 76	
E. W. Farrell.....	66 04	
Farrell & Conaton.....	22 02	
H. J. Fitzpatrick.....	311 68	
Fitzpatrick & Welch.....	725 37	
		<hr/>

Amounts carried forward.	\$3,011 76	\$4,203 42
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SCHOOL HOUSES, WORK NOT DONE BY DEPARTMENT AND BILLS FOR MATERIALS—Continued.

Amounts brought forward	\$3,011 76	\$4,203 42
George P. Green.....	96 24	
George Hanaford & Co.....	52 07	
Joseph Harvey.....	120 41	
Higgins & Kerwin	9 40	
Arthur P. Knapp.....	7 87	
W. A. Mack & Co	79 49	
William H. McElholm.....	11 70	
Edward Meloy.....	11 24	
W. McLarney & Co.....	23 07	
A. Parsons.....	4 50	
Scannell Boiler Works.....	346 26	
Scott & O'Day.....	6 30	
Matthew T. Ward.....	1 30	
Welch Bros.....	1,547 97	
H. H. Wilder & Co.....	10 50	
	<hr/>	5,340 08
Electrical Supplies :		
To Derby & Morse.....	52 91	
Eagle Electric Co.....	489 72	
A. W. Lewis & Co.....	386 34	
	<hr/>	928 97
Hardware :		
To Adams Hardware & Paint Co.	50 26	
J. C. Bennett.....	13 92	
W. T. S. Bartlett.....	11 65	
E. P. Flanders & Co.....	64 16	
H. C. Girard	10 35	
Thompson Hardware Co.....	41 57	
	<hr/>	191 91
Lumber:		
To Burnham & Davis Lumber Co.	85 92	
Willis H. Bean.....	10 00	
Amasa Pratt & Co.....	311 54	
Pratt & Forrest.....	58 59	
William H. Wiggin.....	34 50	
	<hr/>	500 55
Amount carried forward.....		<hr/> \$11,164 93

SCHOOL HOUSE, SUNDRIES.

Amount brought forward..... .. \$11,164 93

Sundries :

App. Water Works..... ..	11 28	
American Mason Safety Tread Co..... ..	58 00	
B. & M. R. R..... ..	20 00	
Frank C. Breen..... ..	75	
Chandler Adjustable Chair and Desk Works..... ..	10 50	
P. Dempsey & Co..... ..	119 65	
Thomas H. Elliot..... ..	50 00	
Henry Esmond..... ..	1 25	
Harry Prescott Graves	15 00	
Gilbride's..... ..	13 20	
F. B. Hill & Co..... ..	2 50	
Edward Judge..... ..	5 00	
Isaac Jalbert..... ..	22 94	
Kelty Bros..... ..	30	
James Murkland & Son..... ..	75	
N. Y., N. H. & H. R. R....	25	
Simpson & Rowland..	5 75	
George H. Staples..... ..	80 35	
Henry F. Whiting..... ..	7 62	
		425 09
		<u>\$11,590 02</u>

NEW CHIMNEY AT HIGHLAND SCHOOL.

Appropriation..... ..	\$125 00	
		<u>\$125 00</u>

EXPENDITURES.

To P. Conlon..... ..	93 50	
P. O'Hearn..... ..	31 50	
		<u>\$125 00</u>

SCHOOLS—Continued.

CONCRETE CHAPEL, CHEEVER AND COTTAGE ST.
SCHOOL BASEMENT.

Appropriation.	\$200 00	
	<hr/>	
		\$200 00
		<hr/>

EXPENDITURES.

To Sundry Persons for Labor....	30 00	
P. Conlon.....	170 00	
	<hr/>	
		\$200 00
		<hr/>

NEW BOILER AT LYON ST. SCHOOL.

Appropriation.....	\$500 00	
	<hr/>	
		\$500 00
		<hr/>

EXPENDITURES.

To Sundry Persons for Labor....	2 84	
P. Conlon.....	64 50	
Fitzpatrick & Welch.....	432 66	
	<hr/>	
		500 00
		<hr/>

NEW BOILER AT TRAINING SCHOOL.

Appropriation.....	\$500 00	
	<hr/>	
		\$500 00
		<hr/>

EXPENDITURES.

To Sundry Persons for Labor....	16 25	
P. Conlon.....	118 00	
Scannell Boiler Works.....	295 00	
James Walsh.....	3 03	
	<hr/>	
Amount carried forward.....	\$432 28	

NEW BOILER AT TRAINING SCHOOL—Continued.

Amount brought forward.	\$ 432 28	
Welch Bros.....	57 30	
H. H. Wilder & Co.....	10 39	
	<hr/>	499 97
Transferred to General Treasury Fund		03
		<hr/>
		<u>\$500 00</u>

REPAIRING FULLER & WARREN FURNACES IN
VARIOUS SCHOOLS.

Appropriation.....	\$1,000 00	
	<hr/>	\$1,000 00
		<hr/>

EXPENDITURES.

To American Express Co.....	60	
B. & M. R. R.....	15 68	
Daniel Cushing & Co.....	33 93	
Fuller & Warren Co.....	871 89	
C. F. Hoisington & Son.....	5 50	
W. A. Mack & Co	24 42	
Staples Bros. Co	28 50	
	<hr/>	980 52
Transferred to General Treasury Fund		19 48
		<hr/>
		<u>\$1,000 00</u>

IMPROVING SANITARY CONDITIONS AT
COLBURN SCHOOL.

Appropriation.....	\$2,000 00	
	<hr/>	\$2,000 00
		<hr/>

IMPROVING SANITARY CONDITIONS AT
COLBURN SCAOOL—Continued.

EXPENDITURES.

To Sundry Persons as per pay roll	304 47	
H. R. Barker Mfg. Co.....	2 00	
Courier-Citizen Co.....	3 50	
Harry Prescott Graves.....	25 00	
Isaac Jalbert.....	126 77	
Arthur P. Knapp.....	2 50	
Lowell Sun.....	4 00	
Amasa Pratt & Co.....	98 83	
Scott & O'Day.....	1,432 75	
	<hr/>	1,999 82
Transferred to General Treasury Fund		18
		<hr/>
		<u>\$2,000 00</u>

NEW BUILDING TO RELIEVE HIGHLAND SCHOOL.

Appropriation.....	\$2,700 00	
	<hr/>	
		<u>\$2,700 00</u>

EXPENDITURES.

To Sundry Persons as per pay roll	931 05	
App. School Houses, Work and Material.....	33 45	
Adams Hardware & Paint Co.	66 81	
Sylvester Bean.....	78 75	
E. J. Carroll & Co.....	38 72	
J. L. Douglass & Co.....	101 74	
E. P. Flanders & Co.....	2 20	
Harry Prescott Graves.....	45 00	
W. A. Mack & Co.....	240 00	
Pratt & Forest.....	716 87	
D. T. Sullivan.....	3 60	
Smith & Lawrence.....	5 00	
	<hr/>	
Amount carried forward...	\$ 2,263 19	

NEW BUILDING TO RELIEVE HIGHLAND
SCHOOL—Continued.

Amount brought forward.....	\$2,263 19	
Staples Bros. Co	13 44	
Thompson Hardware Co	45 31	
William H. Wiggin	377 63	
	<hr/>	2,699 57
Transferred to General Treasury Fund		43
		<hr/>
		\$2,700 00
		<hr/>

SANITARY IMPROVEMENTS IN SUNDRY SCHOOL
HOUSES AND NEW CHIMNEY AT
HIGHLAND SCHOOL.

Appropriation	\$600 00	
	<hr/>	
		600 00
		<hr/>

EXPENDITURES.

To Sundry Persons for Labor....	41 68	
App. School Houses, Work and Material.....	13 76	
E. J. Carroll & Co.....	89 10	
J. D. Danahy.....	193 52	
W. A. Mack & Co.....	5 09	
P. O'Hearn.....	151 75	
D. T. Sullivan.....	5 00	
W. W. Wilder & Co.....	100 00	
	<hr/>	599 90
Transferred to General Treasury Fund		10
		<hr/>
		\$600 00
		<hr/>

SCHOOLS—Continued.

MIDDLESEX VILLAGE SCHOOL BELL.

Appropriation	\$500 00	
	<hr/>	
		<u>\$500 00</u>

EXPENDITURES.

To Sundry Persons for Labor.....	57 88	
Swain Turbine & Mfg. Co.....	250 00	
	<hr/>	
		307 88
Balance to 1905		192 12
		<hr/>
		<u>\$500 00</u>

SEWER MAINTENANCE, SALARIES.

Appropriation.....	\$2,939 00	
	<hr/>	
		<u>\$2,939 00</u>

EXPENDITURES.

App. Sewer Maintenance, Labor...	396 76	
E. S. Foss.....	229 54	
S. D. Butterworth.....	810 00	
D. W. Bugbee.....	581 51	
F. W. Lazelle.....	348 14	
C. H. Raymond.....	530 32	
	<hr/>	
		\$2,896 27
Transferred to General Treasury Fund		42 73
		<hr/>
		<u>\$2,939 00</u>

SEWER MAINTENANCE, LABOR.

Appropriation.....	\$12,000 00	
Received from Sundry Departments	509 54	
	<hr/>	
		<u>\$12,509 54</u>

SEWER MINTENANCE, LABOR—Continued.

EXPENDITURES.

To Sundry Persons for Labor.....	\$12,451 57	
Transferred to General Treasury Fund	57 97	
		<u>\$12,509 54</u>

SEWER MAINTENANCE, SUNDRIES.

Appropriation.....	\$8,561 00	
Receipts, App. Sewer Construction,	3,074 05	
App. 4th of July Observance..	112 38	
App. Parks.....	22 00	
		<u>\$11,769 43</u>

EXPENDITURES.

Hardware and Tools :

To Adams Hardware & Paint Co.	199 84	
Boutwell Bros.....	88 47	
W. T. S. Bartlett.....	1 20	
J. C. Bennett.....	34 63	
Colonial Supply Co.....	64 00	
F. W. Cheney & Co.....	6 00	
E. P. Flanders & Co.....	459 06	
H. C. Girard	16 60	
W. A. Mack & Co.....	26 00	
Smith & Lawrence.....	11 25	
Henry B. Temby.....	890 30	
Thompson Hardware Co	3 62	
		<u>1,800 97</u>

Lumber :

To Burnham & Davis Lumber Co.	603 25	
Amasa Pratt Co.....	347 03	
Pratt & Forrest.....	584 60	
A. G. Thompson	181 33	
W. H. Wiggin.....	402 62	
		<u>2,118 83</u>
Amount carried forward.....		<u>\$3,919 80</u>

SEWER MAINTENANCE, SUNDRIES—Continued.

Amount brought forward.....		\$3,919 80
Paints, Oil etc. :		
To Adams Hardware & Paint Co.	11 90	
Boston Engineers Supply Co..	530 28	
C. B. Coburn Co.....	168 52	
Walter Coburn & Co.....	10 76	
		<hr/> 721 46
Rubber Boots and Repairing :		
To Boulger Shoe Co.....	75 60	
Patrick Fitzgibbon.....	30 50	
E. Lavery.....	38 15	
O'Sullivan Bros. Co	82 50	
Sunlight Shoe Store.....	51 00	
		<hr/> 277 75
Pipe Fittings, etc. :		
To Boutwell Bros.....	7 47	
Boston Engineers Supply Co..	239 20	
H. R. Barker Mfg. Co.....	5 00	
Colonial Supply Co.....	62 40	
Doherty Bros	568 62	
Fitzpatrick & Welch.....	186 30	
Louis Laflamme.....	1 00	
J. W. Stewart	60	
Union Iron Foundry.....	346 01	
Welch Bros.....	35 22	
		<hr/> 1,451 82
Stationery, Printing, etc. :		
To Thomas H. Lawler.....	50	
G. C. Prince & Son.....	125 50	
Charles E. Robinson.....	14 00	
		<hr/> 140 00
Lighting :		
To Lowell Electric Light Corp....	20 10	
		<hr/> 20 10
Carriage-hire and Transportation :		
To American Express Co.....	9 65	
B. & M. R. R	1 65	
Meserve's L. & B. Express....	60	
J. H. Sparks..	19 00	
		<hr/> 30 90
Amount carried forward.....		\$6,561 83

SEWER, MAINTENANCE SUNDRIES—Continued.

Amount brought forward.....		\$6,561 83
Brick, Cement, Fuel, etc. :		
To Edward Cawley.....	331 88	
Connors Bros. Construction Co.	41 25	
H. M. Clark, Agt.....	334 99	
Horne Coal Co.....	11 00	
Lowell Coal Co.....	582 19	
P. O'Hearn.....	5 25	
E. A. & A. T. Smith.....	1 50	
Staples Bros. Co.....	151 07	
D. T. Sullivan.....	246 41	
W. H. Ward	131 25	
	<hr/>	1,836 79
Carriages, Harnesses and Repairs :		
To A. H. Cluer.....	37 40	
C. H. Hanson & Co.....	42 00	
F. B. Hill & Co.....	24 90	
D. W. Parker.....	2 50	
Sawyer Carriage Co	18 43	
	<hr/>	125 23
Sundries :		
App. Engineering.....	899 56	
" Streets, Sundries.....	627 36	
" Streets, Yard Labor.....	91 25	
" Water Works.....	60 22	
Owen E. Brennan	1 35	
F. M. Bill & Co.....	20 25	
John Cross.....	6 00	
M. J. Cahill.....	1 75	
Peter Corcoran.....	15 45	
Derby & Morse	6 10	
Finn Bros.....	48 00	
D. Gage.....	2 08	
C. F. Hatch Co.....	1 75	
E. F. Hathaway.....	13 20	
C. M. Holmes	174 65	
G. E. Hutchins.....	40 10	
C. H. Hanson & Co.....	141 00	
Louis Laflamme and wife....	10 28	
Lafin-Rand Powder Co.....	460 00	
Lowell Wall Paper Co.....	75	
	<hr/>	
Amounts carried forward....	\$2,621 10	\$8,523 85

SEWER, MAINTENANCE SUNDRIES—Continued.

Amounts brought forward.....	\$2,621 10	\$8,523 85
T. J. McDonald.....	102 16	
G. A. Nelson	3 00	
G. L. Ready & Son.....	72 80	
Richardson Hotel.....	5 00	
Simpson & Rowland.....	81 05	
J. A. Thompson	4 00	
Tucke & Parker.....	9 60	
F. A. Tuttle.....	333 50	
Waverly Hotel	11 00	
	<hr/>	3,243 21
		<hr/>
		11,767 06
Transferred to General Treasury Fund		2 37
		<hr/>
		\$11,769 43

SEWER CONSTRUCTION.

Appropriation.....	\$120,000 00	
Receipts, Sundry Persons for over- drafts	16 00	
	<hr/>	\$120,016 00

EXPENDITURES.

To Sundry Persons for Labor.....	90,734 72	
	<hr/>	90,734 72
Engineering	1,455 10	
	<hr/>	1,455 10
Hardware, Tools, etc. :		
To H. R. Barker Mfg. Co.....	1,368 56	
D. J. Leary.....	11 95	
Union Iron Foundry.....	233 55	
	<hr/>	1,614 06
Brick, Cement, Fuel, etc. :		
To Edward Cawley.....	6,982 65	
P. P. Connors & Co.....	230 00	
H. M. Clark, Agt	1,914 65	
	<hr/>	
Amounts carried forward.....	9,127 30	\$93,803 88

SEWER CONSTRUCTION—Continued.

Amounts brought forward.....	\$9,127 30	\$93,803 88
Horne Coal Co.....	100 93	
Lowell Coal Co.....	3,093 63	
F. A. Malorey	224 20	
D. T. Sullivan.....	1,299 56	
	<hr/>	13,845 62
Lumber :		
To Burnham & Davis Lumber Co.	28 96	
H. P. Beals.....	269 47	
Davis & Sargent Lumber Co..	682 50	
Amasa Pratt & Co.....	595 15	
William H. Wiggin	7 30	
	<hr/>	1,583 38
Transportation, Teaming, etc. :		
App. Watering Streets	744 00	
B. & M. R. R... .	709 16	
C. H. Hanson & Co.....	138 00	
Willis Hobbs	79 50	
	<hr/>	1,670 66
Damages :		
To Mary O'Neil.....	360 00	
Peter O'Neil.....	350 00	
	<hr/>	710 00
Sundries :		
App. Water Works	158 48	
" Sewer Maintenance, Sundries,	3,074 05	
" Sewer Maintenance, Labor...	91 42	
A. L. Butman	16 00	
M. J. Drummond & Co.....	935 93	
Gauthier & Lemire	92 00	
T. J. McDonald.....	8 00	
	<hr/>	4,375 88
		<hr/>
		115,989 42
Transferred to General Treasury		
Fund		4,026 58
		<hr/>
		\$120,016 00
		<hr/>

STREETS, SALARIES.

Appropriation.....	\$4,000 00	
		<u>\$4,000 00</u>

EXPENDITURES.

To Laforest Beals, Superintendent	795 70	
Fred W. Farnham “	1,204 30	
George W. Hartwell, Assistant Superintendent.....	1,400 15	
C. H. Raymond, Clerk.....	599 85	
		<u>\$4,000 00</u>

STREETS, YARD LABOR.

Appropriation.....	\$11,000 00	
Receipts, App. Sewer Maintenance	91 25	
“ Watering Streets..	431 80	
H. W. Worcester overdraft...	10 50	
		<u>11,533 55</u>

EXPENDITURES.

To Sundry Persons for Labor.....	11,501 94	
Transferred to General Treasury Fund	31 61	
		<u>11,533 55</u>

STREETS, LABOR.

Appropriation.....	\$90,000 00	
Additional Appropriation.....	43,500 00	
Receipt, Sundry Persons overdrafts	83 10	
		<u>133,583 10</u>

EXPENDITURES.

To Sundry Persons for Labor....	131,589 46	
Transferred to General Treasury Fund	1,993 64	
		<u>\$133,583 10</u>

STREETS, SUNDRIES.

Appropriation.....	\$45,500 00	
Additional Appropriation.....	5,685 12	
Receipts, App. Parks.....	109 67	
" Sewer Maintenance.....	627 36	
" Watering Streets..	1,581 43	
	<hr/>	\$53,503 58

EXPENDITURES.

Fuel :

To Edward Cawley.....	3 28	
Horne Coal Co.....	1,066 71	
Joseph Mullin.....	83 30	
D. T. Sullivan.....	8 32	
	<hr/>	1,161 61

Hay, Grain, etc. :

To Joseph Bowers.....	40 25	
Coffey Bros.....	297 77	
Fred A. Fox.....	593 95	
George M. Foster.....	899 32	
Livingston Grain Co.	125 00	
Julia Hart.....	97 60	
Joseph Mullin.....	2,999 98	
T. J. McDonald.....	1,557 57	
H. E. Noyes & Son.....	3,190 56	
J. B. Sabre.....	891 68	
Paul Vigeant & Co.....	455 92	
James Whittet.....	195 40	
O. D. Wilder.....	34 00	
	<hr/>	11,379 00

Water :

App. Water Works.....	723 79	
	<hr/>	723 79

Carriages, Harnesses and Repairs :

To Robert Barris.....	6 00	
A. L. Butman....	61 50	
A. H. Cluer.....	68 05	
Donovan Harness Co.	254 62	
C. H. Hanson & Co.....	6 00	
F. B. Hill & Co.....	80 90	
H. J. O'Dowd.....	29 00	
D. W. Parker.....	93 80	
	<hr/>	

Amounts carried forward	\$599 87	\$13,264 40
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STREETS, SUNDRIES—Continued.

Amounts brought forward	\$599 87	\$13,264 40
Parker Harness Co	2 25	
Sawyer Carriage Co.....	4 25	
J. H. Sparks.....	38 10	
	<hr/>	644 47
Hardware and Tools :		
To Adams Hardware & Paint Co.	98 56	
Ames Plow Co.	13 14	
W. T. S. Bartlett	19 16	
Boston Engineers Supply Co..	314 00	
J. C. Bennett.....	12 50	
Boutwell Bros.....	545 28	
E. W. Brown	12 50	
Colonial Supply Co.....	269 00	
E. P. Flanders & Co.....	596 09	
H. C. Girard	8 08	
Heselton Brush Mfg. Co.....	14 00	
N. D. Lafleur.....	11 94	
W. A. Mack & Co.....	15 71	
McBarron Co.....	33 00	
N. E. Brown Co.....	835 00	
Henry B. Temby.....	811 50	
Thompson Hardware Co.....	71 01	
E. W. Trull.....	16 00	
	<hr/>	3,696 47
Lumber :		
To Burnham & Davis	30 10	
Burnham & Davis Lumber Co.	2,110 35	
C. M. Holmes	10 75	
Amasa Pratt & Co.....	1,391 10	
Pratt & Forrest.....	118 47	
William H. Wiggin.....	663 71	
	<hr/>	4,324 48
Concrete, Cement, Gravel, Edge- stone and Paving :		
To Jacques Boisvert.....	42 20	
P. P. Conners & Co	25 00	
Lowell Coal Co	49 00	
Mahan & Meehan.....	32 50	
F. A. Malorey.....	2,353 30	
Mass. Broken Stone Co.....	745 36	
	<hr/>	
Amounts carried forward	\$3,247 36	\$21,929 82

STREETS, SUNDRIES—Continued.

Amounts brought forward.	\$3,247 36	\$21,929 82
E. A. & A. T. Smith.	4,672 14	
Union Paving Co.	1,137 97	
James Walsh.	879 34	
	<hr/>	9,936 81
Pipe Fittings, etc. :		
To H. R. Barker Mfg. Co.	20 53	
Buffalo Steam Roller Co.	80 50	
Carroll Bros.	12 00	
W. W. Carey.	8 35	
Colonial Supply Co.	729 02	
Farrell & Conaton.	2 20	
Charles E. Gee.	704 14	
Good Roads Machinery Co.	85 75	
W. A. Mack & Co.	28 76	
Pevey Bros.	13 25	
Scannell Boiler Works.	7 90	
J. W. Stewart.	36 70	
Union Iron Foundry.	64 18	
Welch Bros.	5 00	
	<hr/>	1,788 28
Painters Supplies :		
To Adams Hardware & Paint Co.	47 94	
Boston Engineers Supply Co.	11 14	
John C. Bennett.	15 60	
Sylvester Bean.	2 30	
Owen E. Brennan.	50	
C. B. Coburn Co.	353 98	
Walter Coburn & Co.	31 78	
Keystone Lubricating Co.	17 50	
Smith & Lawrence.	2 75	
	<hr/>	483 49
Books, Stationery, Printing and Advertising :		
To J. Harry Boardman.	2 70	
Courier-Citizen Co.	10 50	
Daily Mail Publishing Co.	10 50	
Dumas & Co.	11 50	
J. M. Fellows.	3 00	
Thomas H. Lawler.	15 35	
	<hr/>	
Amounts carried forward.	\$53 55	\$34,138 40

STREETS, SUNDRIES—Continued.

Amounts brought forward.....	\$53 55	\$34,138 40
Osmond Long.....	3 20	
Lowell Sun.....	10 50	
Municipal Engineering Co....	2 00	
G. C. Prince & Son	30 40	
Charles E. Robinson.....	316 30	
Sampson, Murdock & Co....	6 00	
Smith Premier Typewriter Co.	20 50	
Sunday Telegram.....	4 72	
		447 17
Carriage-hire and Transportation :		
To American Express Co.....	15 20	
B. & M. R. R.....	554 51	
Man. & Con. Express Co....	15	
Meserve's L. & B. Express Co.	1 15	
Morse Coach Co.....	6 00	
N. Y., N. H. & H. R. R....	44	
N. Y. & B. Des. Express Co..	1 25	
J. H. Sparks	32 00	
		610 70
Lighting :		
To Lowell Electric Light Corp...	419 31	
Lowell Gas Light Co.....	62 55	
		481 86
Telephone :		
To N. E. T. & T. Co.....	29 57	
		29 58
Veterinary :		
To Charles E. Munn.....	260 00	
J. H. Sparks.....	62 00	
		322 00
Teaming :		
App. Watering Streets, Sundries ..	628 00	
John Brady.....	74 00	
E. P. Bryant.....	186 00	
B. G. Brown.....	217 50	
A. A. Brown.....	128 00	
A. D. Boynton.....	364 00	
Burnham & Davis.....	200 00	
Amounts carried forward.....	\$1,797 50	\$36,029 71

STREETS, SUNDRIES—Continued.

Amounts brought forward.....	\$1,797 50	\$36,029 71
M. Blanchard.....	28 00	
Jacques Boisvert.....	28 60	
E. Bibeault.....	20 00	
Patrick Cogger.....	216 50	
Conway Transfer Co.....	146 00	
P. P. Connors & Co.....	32 00	
Connors Bros. Construction Co.	29 25	
C. H. Clapp & Co.....	92 00	
E. Duren.....	68 00	
G. F. Fall.....	20 00	
Frank Fay.....	78 00	
C. A. Gilman.....	102 00	
Willis Hobbs.....	435 75	
C. H. Hanson & Co.....	1,370 50	
Horne Coal Co.....	373 50	
B. W. Johnson.....	133 25	
Joseph Loisselle.....	272 00	
Joseph Mullin.....	276 50	
George H. McNabb.....	72 00	
O. F. Prentiss.....	108 00	
Pratt & Forrest.....	90 00	
A. L. Pendergast.....	20 00	
John A. Simpson.....	336 50	
H. W. Tarbell.....	302 50	
William H. Wiggin.....	82 00	
		6,530 35
Engineering :		
App. Engineering.....	3,490 30	
		3,490 30
Sundries :		
To Owen E. Brennan.....	1 00	
E. W. Brown.....	10 00	
J. P. Curley.....	1 20	
C. H. Clapp & Co.....	29 00	
Fred C. Church.....	175 21	
A. F. Frost's Steam Laundry..	31 13	
Patrick M. Flanagan.....	200 00	
Gilbride's.....	9 03	
Helen M. Gilmore.....	6 04	
Daniel Gage.....	36 59	
Amounts carried forward.....	\$499 20	\$46,050 36

STREETS, SUNDRIES—Continued.

Amounts brought forward.....	\$499 20	\$46,050 36
C. H. Hanson & Co.....	587 05	
J. G. Hill.....	50 00	
A. G. Hill	17 20	
E. F. Hathaway	13 50	
Charles T. Haskell.....	50	
C. M. Holmes	27 65	
J. G. Holden.....	18 60	
Keefe Bros	13 25	
L. S. Kimball.....	11 25	
Laflin & Rand Powder Co....	69 00	
R. J. Lang & Co.....	5 70	
Frank E. McNabb	6 20	
F. M. Merrill.....	4 00	
Middlesex Registry of Deeds..	14 50	
James Murkland & Son	9 50	
George A. Nelson.....	4 50	
O'Sullivan Bros. Co	9 00	
A. L. Park.....	160 00	
F. E. Putnam	8 40	
Harry M. Parker.....	75 00	
A. L. Ready.....	19 60	
S. C. Rowe.....	10 00	
C. H. Raymond.....	1 00	
Ricardson Hotel.....	4 00	
Rice & Co.....	25	
A. G. Stedman.....	26 40	
Simpson & Rowland.....	58 55	
W. T. True Co.....	10 00	
H. Thompson.....	21 50	
A. S. Taylor.....	1 50	
Talbot Dye. & Chemical Co ..	3 50	
Talbot Clothing Co.....	3 00	
Town of Dracut.....	35 00	
F. A. Tuttle.....	299 00	
United States Wood Preserving Co.....	5,097 39	
H. E. Webster.....	84 25	
William H. Ward.....	7 50	
H. F. Whiting.....	1 78	
C. L. Woods	106 00	
Amount carried forward.....	\$4,394 22	\$46,050 36

STREETS, SUNDRIES—Continued.

Amounts brought forward.....	\$7,394 22	\$46,050 36
Waverly Hotel.....	49 00	
Zopher Co.....	10 00	
	<hr/>	7,453 22
		<hr/>
		\$53,503 58
		<hr/>

SIDEWALK REPAIRS.

Appropriation.....	\$5,000 00	
	<hr/>	
		\$5,000 00
		<hr/>

EXPENDITURES.

To Sundry Persons for Labor....	1,521 08	
App. Engineering.....	91 19	
Ham & Carter Co.....	615 00	
E. A. & A. T. Smith.....	2,167 26	
James Walsh	604 67	
	<hr/>	4,999 20
Transferred to General Treasury Fund		80
		<hr/>
		\$5,000 00
		<hr/>

NEW SIDEWALKS.

Appropriation.....	\$8,500 00	
	<hr/>	
		\$8,500 00
		<hr/>

EXPENDITURES.

To Sundry Persons for Labor....	2,720 60	
F. A. Malorey.....	3,968 58	
E. A. & A. T. Smith.....	1,716 22	
	<hr/>	8,405 40
Transferred to General Treasury Fund		94 60
		<hr/>
		\$8,500 00
		<hr/>

LAYING OUT, GRADING AND EXTENDING BY STREET.

Balance from 1903.....	2,500 00	
	<hr/>	<u>\$2,500 00</u>

EXPENDITURES.

To Sundry Persons for Labor....	1,554 15	
App. Engineering.....	55 58	
Robert G. Bartlett, 10,020 ft. land	701 40	
Annie Bent, 722 ft. land.....	172 00	
	<hr/>	2,483 13
Transferred to General Treasury Fund		16 87
		<hr/>
		<u>\$2,500 00</u>

WATERING STREETS, LABOR.

Appropriation.....	\$5,000 00	
Receipts, Sundry Persons overdrafts	28 00	
	<hr/>	<u>\$5,028 00</u>

EXPENDITURES.

To Sundry Persons for Labor....	5,011 71	
Transferred to General Treasury Fund	16 29	
	<hr/>	<u>\$5,028 00</u>

WATERING STREETS, SUNDRIES.

Appropriation.....	\$10,500 00	
Receipts, App. Streets, Sundries...	628 00	
" Sewer Maintenance	744 00	
	<hr/>	<u>\$11,872 00</u>

WATERING STREETS, SUNDRIES—Continued.

EXPENDITURES.

Hardware, Pipe Fittings, etc.:

To Boutwell Bros	4 34
H. R. Barker Mfg. Co.	37 86
E. J. Carroll & Co	1 35
Farrell & Conaton	48 11
H. J. Fitzpatrick	42 00
Fitzpatrick & Welch	160 00
D. J. Leary	160 00
D. Ziskind	7 51

461 17

Carriages, Harnesses and Repairing:

App. Streets, Yard Labor	431 80
“ “ Sundries	1,581 43
A. H. Cluer	5 10
Donovan Harness Co	12 50
C. H. Hanson & Co	18 00

2,048 83

Hay, Grain, etc.:

To Livingston Grain Co	64 41
Paul Vigeant & Co	74 49
O. D. Wilder	25 00

163 90

Fuel and Stone:

To Horne Coal Co	21 50
F. A. Malorey	32 39

53 89

Sundries:

App. Engineering	219 00
“ Water Works	1,370 39
American Car Sprinkler Co	5,750 00
Adams Hardware & Paint Co	21 15
B. & M. R. R	20 00
B. & N. St. Ry. Co	774 00
Dumas & Co	10 00
C. H. Hanson & Co	858 75
Lowell Electric Light Corp	43 16
T. J. McDonald	5 30

Amounts carried forward

\$9,071 75

\$2,727 79

WATERING STREETS, SUNDRIES—Continued.

Amounts brought forward.	\$ 9,071 75	\$2,727 79
J. J. O'Donnell.....	1 80	
J. L. & H. K. Potter.....	21 60	
Amasa Pratt Co.....	21 12	
	<hr/>	9,116 27
		<hr/>
		11,844 06
Transferred to General Treasury Fund		27 94
		<hr/>
		\$11,872 00
		<hr/>

SUPPLY, SALARIES.

Appropriation.....	\$5,429 00	
Additional Appropriation.....	15 58	
	<hr/>	5,444 58
		<hr/>

EXPENDITURES.

To James E. Donnelly, Chief of Department of Supplies...	2,400 00	
Abram Fenton, Inspector.....	785 00	
Thomas J. Murphy, Inspector.	745 75	
Eleanor M. Churchill, Clerk...	782 50	
Samuel A. McPheters, Clerk..	731 33	
	<hr/>	\$5,444 58
		<hr/>

SUPPLY, SUNDRIES.

Appropriation.....	\$875 00	
Additional Appropriation.....	47 63	
	<hr/>	922 63
		<hr/>

SUPPLY, SUNDRIES—Continued.

EXPENDITURES.

Books, Stationery, Printing, etc. :

To Carter's Ink Co.....	76
Courier-Citizen Co	132 75
J. M. Fellows.....	3 10
Lawler Printing Co.....	7 50
Thomas H. Lawler...	19 45
M. C. Olson Mfg. Co.....	2 57
G. C. Prince & Son.....	49 29
Sampson, Murdock & Co.....	3 00
F. A. M. Tobin	53 25

271 67

Carriages, Harnesses and Repairing:

To Donovan Harness Co	37 75
Thomas J. Goyette	11 25
C. H. Hanson & Co.....	103 00
F. B. Hill & Co	34 70
H. J. O'Dowd	2 50

189 20

Board of Horses:

To P. F. McNulty.	75 02
T. J. McDermott.....	185 42

260 44

Shoeing Horse :

To John J. Donnelly.....	42 60
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42 60

Telephone, Transportation :

To American Express Co.....	30
B. & M. R. R.....	101 25
Conway Transfer Co.....	75
Hill Transfer Co.	35
J. F. Kelley & Co.....	39 50
N. E. T. & T. Co.....	13 47

155 62

Sundries :

To J. A. Filion.....	1 50
Geo. H. Gage.	1 25
A. G. Pollard & Co	35

3 10

\$922 63

WATER WORKS.

Balance Jan. 1, 1904.....	3,059 92	
Received from Sundry Persons for Water Rates, Service Pipe, etc.	197,074 64	
		<u>\$200,133 56</u>

EXPENDITURES.

Salaries:

To Robert J. Crowley	400 00	
Michael J. Dowd	400 00	
August Fels	400 00	
Frank L. Weaver	400 00	
Robert J. Thomas, Supt.....	1,800 00	
		3,400 00

To John W. Crawford, Clerk....	1,600 00	
To Sundry Persons for Labor..	64,570 63	
		66,170 63

App. City Debt instalments on notes.....		21,600 00
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Interest:

To Commonwealth of Mass.....	1,400 00	
Sundry Persons (coupons on bonds).....	41,300 00	
City of Lynn, Sinking Fund ..	150 00	
B. V. French, Treasurer.....	150 00	
Lowell Institution for Savings,	831 00	
Roundout Savings Bank.. ...	1,500 00	
Mary S. Felton	300 00	
		45,631 00

Paid Sundry Persons refunds on water rates.	1,163 26	
		1,163 26

Amount carried forward.		<u>\$137,964 89</u>
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WATER, WORKS—Continued.

Amount brought forward..... \$137,964 89

Fuel:

To John Brady.....	10 00
Edward Cawley.....	901 39
Horne Coal Co.....	7 00
Lowell Coal Co.....	13,628 88
Joseph Mullin.....	19 28
Daniel T. Sullivan.....	1,648 60

16,215 15

Pipe Fittings, Hydrants, Meters,
etc.:

To H. R. Barker Mfg. Co.....	103 06
Builders Iron Foundry.....	279 00
Carroll Bros.....	142 57
Chapman Valve Mfg. Co.....	185 66
Chelmsford Foundry Co.....	80 00
A. W. Chesterton & Co.....	52 00
Coffin Valve Co.....	247 00
Daniel Cushing & Co.....	104 06
Doherty Bros.....	44 61
W. & B. Douglass.....	2 12
Harry S. Drury.....	1,124 84
M. J. Drummond & Co.....	700 40
Eastern Forge Co. of Mass....	74 40
Eagle Foundry.....	11
Farrell & Conaton.....	59 53
E. F. Farrell.....	3 00
G. W. Fifield.....	113 50
W. D. Forbes Co.....	10 65
Greenwood & Daggett Co....	168 74
George Green.....	4 00
Hersey Mfg. Co.....	1,179 65
Higgins & Kerwin.....	119 34
Jenkins Bros.....	24 86
Jones-Guage Co.....	10 00
Kennedy Valve Mfg. Co.....	62 05
Knowls Steam Pump Works..	42 10
D. Lovejoy & Son.....	26 77
Lead Lined Iron Pipe Co.....	2,392 65
Lowell Machine Shop.....	6 58

Amounts carried forward... .. \$7,363 20 \$154,180 04

WATER, WOKKS—Continued.

Amounts brought forward.....	\$7,363 20	\$154,180 04
Locke Regulator Co	17 46	
Ludlow Valve Mfg. Co	694 73	
Lynchburg Foundry Co	1,898 84	
W. McLarney & Co.....	11 93	
Middlesex Machine Co.....	10 47	
A. M. Morton & Co.....	21 65	
H. Meulher Mfg. Co.....	242 76	
National Meter Co.....	2,366 26	
Neptune Meter Co.....	78 25	
A. F. Nichols.....	64	
Penn. Metal Ceiling and Roof- ing Co.....	45 00	
Perrin, Seamans & Co.....	51 33	
Pevey Bros.....	7 20	
Rensselaer Mfg. Co.....	201 65	
A. L. Ready & Son.....	90	
Scannell Boiler Works.....	261 67	
A. P. Smith Mfg. Co.....	511 00	
Thomson Meter Co.....	469 16	
Union Iron Foundry.....	327 46	
Union Water Meter Co.....	59 05	
Walworih Mfg. Co.....	29 56	
Welch Bros.....	25 19	
R. D. Wood & Co	19 00	
Henry R. Worthington.....	4 48	
		14,718 84
Hardware, etc.:		
To Adams Hardware & Paint Co.....	21 66	
W. T. S. Bartlett.....	2 96	
Owen E. Brennan.....	35	
Boutwell Bros.....	70 68	
John Callaghan.....	23 42	
Alfred Drake.....	1 00	
E. P. Flanders & Co.....	159 61	
H. C. Girard.....	110 81	
W. A. Mack & Co.....	9 60	
A. L. Ready & Son	14 00	
H. B. Shattuck & Son.....	2 20	
Smith & Lawrence.....	1 73	
Thompson Hardware Co.....	68 89	487 91
Amount carried forward.....		\$169,386 79

WATER, WORKS—Continued.

Amount brought forward. \$169,386 79

Lumber :

To Burnham & Davis Lumber Co.	168 06
Pratt & Forrest.	241 80
Amasa Pratt & Co.	52 42
William H. Wiggin.	17 78

480 06

Oils, Paints, Packing, etc. :

To Sylvester Bean.	140 19
Boston Engineers Supply Co .	495 63
Challenge Tube Cleaner Co. . .	6 00
C. B. Coburn Co.	302 11
Cutter, Wood & Stevens Co. . .	6 30
Eagle Oil and Supply Co.	132 31
Garlock Packing Co.	71 37
F. H. Griffin & Co.	100 00
Hart Packing Co.	15 86
Hayden & Co.	8 75
A. L. Kittredge & Co.	25
G. W. Knowlton Rubber Co. . .	18 66
Smith & Lawrence	3 25
The Greenwood & Daggett Co. .	76 50
Valvoline Oil Co.	226 69

1,603 87

Stationery, Printing, Advertising,
etc. :

To J. Harry Boardman.	1 50
Frank P. Bridges & Co.	3 00
Butterfield Printing Co.	169 91
Courier-Citizen Co.	332 25
Daily Mail Publishing Co.	20 00
Dumas & Co.	153 25
Engineering News Publishing	5 00
Fire & Water Engineering. . . .	3 00
Harry C. Kittredge.	3 15
Lawler Printing Co.	7 05
Thomas H. Lawler.	3 05
Libby Printing Co.	20 35
Lowell Sun.	19 20

Amounts carried forward. \$740 71½ \$171,470 72

WATER, WORKS—Continued.

Amounts brought forward.....	\$740 71	\$171,470 72
Lepine & Co.....	10 50	
M. C. Olson Mfg. Co.....	2 57	
G. C. Prince & Son.....	43 17	
Saturday Free Press.....	1 00	
Sampson, Murdock & Co.....	6 00	
Sunday Telegram.....	9 79	
Tilton & Co.....	50	
F. A. M. Tobin.....	29 25	
Union Printing Co.....	2 75	
M. G. Wight & Co.....	25 75	
		871 99
Mason Work and Material :		
To John Carr & Sons.....	45 50	
Edward Cawley.....	43 76	
P. Cogger.....	12 50	
P. Conlon.....	591 88	
Lowell Coal Co.....	43 25	
F. A. Malorcy.....	353 75	
E. A. & A. T. Smith.....	70 50	
Staples Bros. Co.....	943 53	
Daniel T. Sullivan.....	122 25	
		2,226 92
Hay, Grain, etc. :		
To Ame & Co.....	25 00	
Charles Dumas & Co.....	3 90	
George M. Foster.....	48 76	
T. J. McDonald.....	146 45	
H. E. Noyes & Son.....	63 60	
Paul Vigeant & Co.....	160 24	
O. D. Wilder.....	3 90	
		451 85
Carriages, Harnesses and Repairing :		
To Abbot Downing Co.....	160 50	
Robert Barris.....	14 00	
E. P. Bryant.....	25 62	
Donovan Harness Co.....	182 76	
F. B. Hill & Co.....	204 40	
H. J. O'Dowd.....	10 50	
Sawyer Carriage Co.....	64 25	
		662 03
Amount carried forward.....		\$175,683 51

WATER, WORKS—Continued.

Amount brought forward..... \$175,683 51

Shoeing Horses :

To S. A. Shattuck..... 137 19
 _____ 137 19

Lighting and Telephone :

To Lowell Gas Light Co..... 3 69
 N. E. Tel. & Tel. Co..... 97 08
 _____ 100 77

Insurance :

To N. G. Norcross..... 15 00
 _____ 15 00

Expenses of Water Board :

To J. W. Crawford..... 555 31
 Robert J. Crowley..... 4 50
 New American..... 2 00
 Page Catering Co..... 90 00
 Robert J. Thomas..... 42 50
 _____ 694 31

Transportation, Carriage-hire, etc. :

To American Express Co..... 31 32
 B. & M. R. R..... 622 45
 E. Duren..... 164 25
 Man. & Con. Express Co..... 3 25
 Meserve's L. & B. Express Co. 65
 N. Y. & B. Des. Express Co. 6 65
 N. Y., N. H. & H. R. R.... 28 55
 J. H. Sparks 37 00
 _____ 894 12

Sundries :

To App. Engineering..... 1,346 69
 Bay State Incandescent Lamp
 Co..... 4 40
 Maria Bennett..... 15 00
 John Cross..... 2 00
 Derby & Morse 6 06
 Daniel G. Fox..... 30 10
 Gookin Bros..... 12 00
 Daniel Gage. 8 10
 C. E. Guthrie..... 45
 C. H. Hanson & Co..... 390 00

Amounts carried forward..... \$1,814 80 \$177,524 90

WATER, WORKS—Continued.

Amounts brought forward.....	\$1,814 80	\$177,524 90
Joseph Holtham.....	30 38	
C. W. Holmes.....	385 13	
Keefe Bros.....	90	
Lafflin-Rand Powder Co.....	30 50	
Lowell Rendering Co.....	21 42	
Lowell Wall Paper Co.....	2 70	
Lull & Hartford.....	1 50	
T. J. McDonald.....	3 20	
J. J. McManmon.....	133 24	
C. H. May & Co.....	4 20	
James Murkland & Son	20 25	
John J. McCann	75	
H. C. McOsker.....	1 16	
G. A. Nelson.....	3 75	
O'Brien Bros.....	8 00	
O'Sullivan Bros. Co	54 00	
Prop's Locks and Canals.....	392 90	
Harry Raynes.	15 00	
G. G. Read.....	16 50	
Lorenzo E. Smith & Eben B. Stafford.....	92 46	
George F. Smith.....	40 50	
Simpson & Rowland.....	17 75	
W. A. Sherman	9 50	
A. G. Stiles	65	
Talbot Dye. & Chemical Co..	3 15	
Tucke & Parker.....	143 09	
E. G. Twohey.....	359 49	
Town of Chelmsford.....	55 50	
Waverly Hotel	17 00	
H. F. Whiting.....	90	
Whittet & Co	72 78	
Mitchell, Wing & Co.....	19 04	
Frank I. Zipper.....	1 25	
		3,773 34
		181,298 24
Balance to 1905		18,835 32
		\$200,133 56

STATE AID SALARIES AND SUNDRIES.

Appropriation	\$2,200 00	
		<u>\$2,200 00</u>

EXPENDITURES.

To H. M. Potter, Superintendent	1,200 00	
Mary C. Brennan, Assistant Suprintendent.....	720 00	
		<u>1,920 00</u>
Buckland Printing Co.....	6 50	
Butterfield Printing Co.....	7 00	
Couricr-Citizen Co.....	4 00	
Thomas H. Lawler.....	12 00	
N. E. T. & T. Co... ..	3 60	
M. C. Olson Mfg. Co.....	2 57	
H. M. Potter	126 97	
G. C. Prince & Son.....	18 50	
Sampson, Murdock & Co.....	3 00	
J. H. Sparks.....	3 00	
		<u>187 14</u>
		<u>2,107 14</u>
Transferred to General Treasury Fund		92 86
		<u>\$2,200 00</u>

STATE AID.

Appropriation.....	\$15,000 00	
Receipts, overdrafts.....	50 00	
		<u>\$15,050 00</u>

EXPENDITURES.

Paid Sundry Persons for Aid in 1904	14,937 50	
Transferred to General Treasury Fund	112 50	
		<u>\$15,050 00</u>

MILITARY AID.

Appropriation.....	\$5,000 00	
		<u>\$5,000 00</u>

EXPENDITURES.

Paid Sundry Persons for Aid in 1904.....	3,931 00	
Transferred to General Treasury Fund	1,069 00	
		<u>\$5,000 00</u>

SOLDIERS RELIEF.

Appropriation.....	\$9,100 00	
Receipts, Sundry Persons overdrafts	48 00	
		<u>9,148 00</u>

EXPENDITURES.

Cash Allowances	6,144 00	
		<u>6,144 00</u>
Provisions, Fuel etc. :		
App. Paupers, O. D. R. Gen- eral Sundries.....	77 80	
W. H. Brown.....	2 00	
J. S. Brooks.....	44 00	
John H. Burke.....	52 00	
Blackstone Market.....	6 00	
Broadway Cash Market.....	26 00	
John Brady.....	1 00	
Edward Cawley.....	151 80	
C. F. Devno.....	94 00	
Family Supply Co.....	240 00	
W. F. Gallagher.....	18 00	
W. T. Griffin.....	38 00	
W. J. Hardy & Co	56 00	
A. M. Huntoon & Co.....	5 00	
		<u>\$811 40</u>
Amounts carried forward	\$811 40	<u>\$6,144 00</u>

SOLDIERS RELIEF—Continued.

Amounts brought forward.....	\$811 40	\$6,144 00
Keefe Bros.....	93 92	
A. J. Keith.....	71 00	
J. M. Kingsbury.....	124 00	
Lowell Coal Co.....	196 84	
Lowell Gas Light Co.....	4 00	
George Lynch.....	275 00	
Lincoln Square Grocery	42 00	
Hugh McCluskey.....	5 00	
J. J. McCausland & Co	10 00	
McDonald Bros	28 00	
O'Sullivan Bros. Co	1 50	
M. N. Peabody	2 00	
Ranlett & Ranlett	25 00	
Ranlett Grocery Co.....	6 00	
J. B. Richardson & Sons.....	72 00	
John F. Saunders.....	3 00	
J. J. Stack	29 00	
F. R. Strout.....	77 00	
J. F. Stearns	86 00	
Union Market.....	60 00	
S. W. Wiggin	9 00	
	<hr/>	2,031 86
Interments :		
To J. W. Brooks.....	35 00	
J. B. Currier	35 00	
Peter Davey.....	35 00	
J. W. McKenna.....	35 00	
C. H. Molloy.....	35 00	
J. F. O'Donnell & Sons.....	35 00	
Walter Perham.....	35 00	
John F. Rogers.....	35 00	
Saunders' Undertakers Estab- lishment.....	70 00	
John A. Weinbeck.....	70 00	
C. M. Young & Co.....	140 00	
	<hr/>	560 00
Physicians :		
To Solon Bartlett.....	173 00	
W. A. Johnson	21 00	
J. E. Leary.....	63 00	257 00
	<hr/>	
Amount carried forward.....		\$8,992 86

SOLDIERS RELIEF—Continued.

Amount brought forward.....		\$8,992 86
Sundries :		
To City of Lawrence.....	31 43	
City of Taunton.....	7 50	
Lowell Hospital Association..	15 00	
H. M. Potter	24 25	
	<hr/>	78 18
		<hr/>
		9,071 04
Transferred to General Treasury Fund		76 96
		<hr/>
		<u>\$9,148 00</u>

TEMPORARY LOANS.

Balance Jan. 1, 1904.....	700,000 00	
Borrowed in 1904	1,300,000 00	
	<hr/>	\$2,000,000 00
		<hr/>

EXPENDITURES.

To Bond & Goodwin.....	300,000 00	
First National Bank of Boston,	300,000 00	
Lowell Institution for Savings,	600,000 00	
	<hr/>	\$1,200,000 00
Balance to 1905		800,000 00
		<hr/>
		<u>\$2,000,00 000</u>

CITY DEBT.

Appropriation.....	\$275,580 50	
Received from Commissioners of Funds on Extension of Fort Hill Park Sinking Fund.....	70,210 29	
Received from App. for Water Works.....	21,600 00	
		<hr/>
		<u>\$367,390 79</u>

CITY DEBT—Continued.

EXPENDITURES.

To Commissioners of Sinking Funds.....	2,500 00	
Central Savings Bank.....	16,220 00	
Commonwealth of Mass.....	28,250 00	
City Institution for Savings...	7,100 00	
City of Lynn Sinking Fund...	7,500 00	
East River Savings Bank.....	5,000 00	
Leominster Savings Bank.....	3,000 00	
Lowell Five Cent Savings Bank	520 00	
Lowell Institution for Savings,	188,193 50	
N. E. Mutual Life Insurance Co.....	1,900 00	
Seamans Bank for Savings....	17,500 00	
Sundry Persons.....	70,210 29	
Washington Savings Institution	5,997 00	
West Side Savings Bank.....	13,500 00	
		<u>\$367,390 79</u>

INTEREST.

Appropriation.....	\$135,000 00	
		<u>\$135,000 00</u>

EXPENDITURES.

To Boston Five Cent Savings Bank	1,875 00	
Bowery Savings Bank.....	6,000 00	
Bond & Goodwin.....	2,859 16	
City Institution for Savings...	1,420 00	
Commonwealth of Mass.....	2,033 75	
Commissioners of Sinking Funds.....	437 50	
Central Savings Bank.....	3,325 62	
East River Savings Institution,	280 00	
E. W. & E. F. Fox.....	50 00	
N. W. Harris & Co.....	50 00	
Hospital Aid Society, Keene,		
N. H.....	20 00	
Leominster Savings Bank.....	400 00	
Amount carried forward	\$18,751 03	

INTEREST—Continued.

Amount brought forward	\$ 18,751 03	
Emma W. Lewis.....	40 00	
Lowell Five Cent Savings Bank	104 00	
Lowell Institution for Savings,	58,703 08	
Ministry-at-Large.....	600 00	
N. E. Mutual Life Insurance		
Co.....	228 00	
N. Y. Savings Bank	2,000 00	
John J. O'Donnell.....	5 85	
Charles Russell.....	100 00	
Seamans Bank for Savings ...	1,850 00	
Trustees Estate Thos. Nesmith	1,500 00	
Trustees Public Burial Grounds	1,027 74	
Treasurer High St. Church...	60 00	
Estate Samuel Watts.....	120 00	
Mary J. Watts	40 00	
Washington Savings Institution	1,626 55	
Sundry Persons on bonds.....	30,533 68	
		117,289 93
Transferred to General Treasury		
Fund		17,710 07
		<u>\$135,000 00</u>

SINKING FUND.

Appropriation	\$38,300 00	
		<u>\$38,300 00</u>

EXPENDITURES.

Paid Commissioners of Sinking		
Funds.....		
Water Loan Sinking Fund....	16,000 00	
High Service Sinking Fund...	1,800 00	
High School Sinking Fund ...	3,000 00	
New School Houses Sinking		
Fund	4,000 00	
Extension Ft. Hill Park Sinking		
Fdnd	6,000 00	
City Hall and Memorial Bld'g		
Sinking Fund.....	7,500 00	
		<u>\$38,300 00</u>

CARNEY MEDAL FUND.

Balance Undrawn Jan. 1, 1904.....	\$200 00	
		<u>\$200 00</u>

Balance Undrawn Dec. 31st 1904...	\$200 00	
		<u>\$200 00</u>

TAXES.

Received from General Treasury		
Fund Taxes.....	231 30	
Received from Abatement of Taxes.	104 50	
		<u>\$335 80</u>

EXPENDITURES.

Paid Sundry Persons for taxes over-		
paid	335 80	
		<u>\$335 80</u>

EDSON CEMETERY ANNEX.

Balance undrawn Jan. 1, 1904.. ..	961 01	
		<u>\$961 01</u>

EXPENDITURES.

To Sundry Persons for Labor....	422 64	
Charles T. Fish.....	50 00	
Margaret Marshall.....	72 00	
M. Murphy.....	110 00	
		<u>654 64</u>
Balance carried forward to 1905...		306 37
		<u>\$961 01</u>

CORPORATION TAX.

Appropriation.	\$46 32	
	<hr/>	\$46 32
Paid Commonwealth of Mass.	46 32	
	<hr/>	\$46 32

NATIONAL BANK TAX.

Appropriation.....	\$11,603 35	
	<hr/>	\$11,603 35
Paid Commonwealth of Mass. balance.....	284 55	
Paid Commonwealth of Mass. tax of 1904	11,318 80	
	<hr/>	\$11,603 35

STATE TAX.

Appropriation.....	\$63,034 43	
	<hr/>	\$63,034 43
Paid Commonwealth of Mass. State Tax.	58,050 00	
Paid Commonwealth of Mass. Armory Loan Sinking Fund ..	1,764 29	
Paid Commonwealth of Mass. Interest	3,220 14	
	<hr/>	\$63,034 43

COUNTY TAX.

Appropriation.....	\$78,478 87	
	<hr/>	\$78,478 87
Paid County of Middlesex tax of 1004.....	78,478 87	
	<hr/>	\$78,478 87

STATE HIGHWAY TAX.

Appropriation.....	\$97 04	
	<hr/>	\$97 04
		<hr/>
Paid Commonwealth of Mass. tax of 1904.....	97 04	
	<hr/>	\$97 04
		<hr/>

TAX CASES.

Balance undrawn Jan. 1, 1904....	618 58	
	<hr/>	\$618 58
		<hr/>

EXPENDITURES.

To Charles E. Howe.....	46 00	
William A. Hogan.....	246 50	
	<hr/>	292 50
Balance to 1905.....		326 08
		<hr/>
		\$618 58
		<hr/>

BENNETT PORTRAIT.

Balance undrawn Jan. 1, 1904	300 00	
	<hr/>	\$300 00
		<hr/>

EXPENDITURES.

To W. H. Downs.....	300 00	
	<hr/>	\$300 00
		<hr/>

GREENHALGE PORTRAIT.

Balance undrawn Jan. 1, 1904....	300 00	
	<hr/>	\$300 00
		<hr/>
Balance Dec. 31st 1904.....	300 00	
	<hr/>	\$300 00
		<hr/>

BUTLER PORTRAIT.

Balance undrawn Jan. 1, 1904.....	300 00	
	<hr/>	\$300 00
		<hr/>

EXPENDITURES.

To Walter Gilman Page.....	300 00	
	<hr/>	\$300 00
		<hr/>

MEMORIAL DAY, G. A. R.

Appropriation.....	\$1,000 00	
	<hr/>	\$1,000 00
		<hr/>

EXPENDITURES.

Music:

To J. Avison Baker.....	25 00	
J. H. Jernnotte.....	24 00	
Lowell Cadet Band.....	75 00	
Lowell Military Band.....	75 00	
National Band	75 00	
Union Musicale Band.....	75 00	
	<hr/>	349 00

Printing, Painting etc.:

To A. Jamieson.....	4 00	
Post 185 G. A. R.....	3 71	
F. A. M. Tobin.....	3 75	
Union Printing Co.....	6 75	
	<hr/>	18 21

Refreshments:

To Page Catering Co	90 00	
Post 42 G. A. R.	27 00	
Post 120 G. A. R.	31 02	
Post 185 G. A. R.	31 01	
	<hr/>	179 03

Amount carried forward.....		\$546 24
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MEMORIAL DAY, G. A. R.—Continued.

Amounts brought forward.....		\$546 24
Decorations, Plants etc.:		
To C. L. Marshall	98 91	
C. F. Young.....	43 00	
		141 91
Transportation, Carriage Hire etc. :		
To B. & N. St. Ry.	16 00	
O. P. Davis	15 00	
Edward Judge.....	3 50	
D. P. Knowlton.....	5 00	
J. H. Sparks.....	45 00	
		84 50
Sundries :		
To F. P. Fish	90 00	
C. H. Kimball & Co.....	50 00	
F. B. Peabody.....	30 00	
Pevey Bros	35 00	
Post 120 G. A. R.	9 70	
Props. Lowell Cemetery	3 00	
Shaw Stocking Co	7 75	
George E. Worthen	1 40	227 35
		\$1,000 00

MEMORIAL DAY, SPANISH WAR VETERANS.

Appropriation.....	\$200 00	
		\$200 00

EXPENDITURES.

To Mrs. Eleanor Dubuque.....	30 00	
Gen. Butler Association Band.	100 00	
Lawler Printing Co.....	16 70	
Morse Coach Co	12 00	
J. J. McManmon	3 00	
James Walsh.....	38 30	
		\$200 00

FOURTH OF JULY OBSERVANCE.

Appropriation.....	\$3,000 00	
Receipts from Waverly Hotel		
Overdraft.....	8 00	
	<hr/>	\$3,008 00
		<hr/>

EXPENDITURES.

Music :

To American Band	92 00	
Lowell Cadet Band	100 00	
Lowell Military Band.....	100 00	
National Band	100 00	
Union Musicale Band.....	100 00	
	<hr/>	492 00

Fire Works :

To W. A. Luce.....	800 00	
	<hr/>	800 00

To Sundry Persons for Prizes....	194 00	
	<hr/>	194 00

Firing Salute and Ringing Bells :

To Lowell Mechanic Phalanx....	150 00	
Arthur E. Willman.....	10 00	
	<hr/>	160 00

Children's Entertainment :

To William H. Way.....	200 00	
	<hr/>	200 00

Balloon Ascension :

To James Allen & Son.....	500 00	
	<hr/>	500 00

Sundries:

To App. Sewer Maintenance		
Sundries	112 38	
Thomas J. Connors.	7 15	
Frank M. Dowling.....	47 80	
C. H. Kimball.....	44 00	
A. R. Lopez.....	20 75	
Lowell Gas Light Co.....	99	
	<hr/>	

Amounts carried forward.	\$233 07	\$2,346 00
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FOURTH OF JULY, OBSERVANCE—Continued.

Amounts brought forward.....	\$233 07	\$2,346 00
D. L. Page Co	9 00	
Joseph E. Pattee	21 00	
F. O. Prentiss.....	5 00	
J. H. Sparks	4 00	
Waverley Hotel.....	16 00	
W. U. Tel. Co.....	25	
Welch Bros	6 00	
	<hr/>	294 32
Transferred to General Treasury Fund		367 68
		<hr/>
		<u>\$3,008 00</u>

LABOR DAY.

Appropriation.....	\$1,500 00	
	<hr/>	\$1,500 00
Transferred to General Treasury Fund	\$1,500 00	
	<hr/>	\$1,500 00
		<u>\$1,500 00</u>

BAND CONCERTS.

Appropriation.....	\$650 00	
	<hr/>	\$650 00
		<u>\$650 00</u>

EXPENDITURES.

To American Band	120 00	
Lowell Cadet Band.....	120 00	
Lowell Military Band.....	120 00	
L'Union Musicale Band	120 00	
National Band	120 00	
Welch Bros	50 00	
	<hr/>	\$650 00
		<u>\$650 00</u>

LOWELL TEXTILE SCHOOL.

Appropriation	\$8,000 00	
		<u>\$8,000 00</u>

EXPENDITURES.

Paid Trustees Lowell Textile School	8,000 00	
		<u>\$8,000 00</u>

CLAIMS FOR DAMAGES, INJURIES, ETC.,

Appropriation.....	\$1,239 00	
		<u>\$1,239 00</u>

EXPENDITURES.

To Nathaniel Allen.....	50 00	
Geneva Boynton	30 00	
Thomas J. Brosnan.....	200 00	
Catherine Carroll.....	100 00	
William J. Dresser.....	40 00	
Celude Druin... ..	25 00	
Peter A. Golden.....	30 00	
Katherine M. Lawrence.....	150 00	
John Malone....	75 00	
Elizabeth Marren.....	114 00	
Christopher McGrath.....	250 00	
Jane Ryan.....	75 00	
Thomas Sayers	50 00	
William H. Wiggin.....	50 00	
		<u>\$1,239 00</u>

FIRE ALAM BOX, COR. AIKEN AVE. AND
CUMBERLAND ROAD.

Appropriation.	\$150 00	
		<u>\$150 00</u>

EXPENDITURES.

To W. E. Decrow.....	150 00	
		<u>\$150 00</u>

REPAIRS OF STEAMER 3.

Appropriation.....	\$2,000 00	
	<hr/>	\$2,000 00
		<hr/>

EXPENDITURES.

To B. & M. R. R.....	14 25	
Balance to 1905.....	1,985 75	
	<hr/>	\$2,000 00
		<hr/>

RICHARDSON BILL.

Appropriation.....	\$5,400 00	
	<hr/>	\$5,400 00
		<hr/>

EXPENDITURES.

To George F. Richardson for services.....	5,400 00	
	<hr/>	\$5,400 00
		<hr/>

REBATES ON RENT PAID FOR HUNTINGTON HALL.

Appropriation.....	\$420 00	
	<hr/>	\$420 00
		<hr/>

EXPENDITURES.

To Bachellor Club.....	10 00	
Fraternal Order of Eagles....	20 00	
James J. Gray.....	210 00	
Henry J. Keyes.....	10 00	
Knights of Columbus.....	60 00	
Knights of Pythias.....	10 00	
L. & S. Aid Association.....	10 00	
Lowell Cadet Orchestra.....	10 00	
Mathew Temperance Institute,	10 00	
Mohair Cricket Club.....	10 00	
R. C. Paradis.....	10 00	
J. J. Redmond.....	10 00	
T. F. Rohan.....	10 00	
Y. M. C. I.....	30 00	
	<hr/>	\$420 00
		<hr/>

TAXES.

The amount of taxes assessed on the Polls and on the Real and Personal Estates within the City of Lowell, for the year 1904, was as follows:

VALUATION OF AND TAX ON REAL AND PERSONAL PROPERTY.

VALUATION.	RATE.	TAX.
Real Estate . . . \$56,773,140 00	\$20 00 per \$1,000	\$1,135,462 80
Personal Estate . 14,841,767 00	20 00 per 1,000	296,835 34
Total valuation \$71,614,907 00	Tax on property.	\$1,432,298 14

Number of Polls 25.555 at \$2.00 each \$51,110 00

Tax assessed on shares of stock in
the National Banks of Lowell,
held by non-residents and which
are not included in the City
valuation

11,239 36

\$1,494,647 50

GENERAL TREASURY FUND, TAXES.

Uncollected Jan. 1, 1904.	597,034 41	
Assessment 1904.	1,494,647 50	
Appropriated for taxes paid twice..	231 30	
	<hr/>	\$2,091,913 21
Receipts.	1,494,770 49	
Abated by Assessors.	23,807 39	
	<hr/>	1,518,577 88
Uncollected Dec. 31, 1904.		<hr/>
		\$573,335 33
		<hr/>

GENERAL TREASURY FUND, LOANS.

Received from Sundry Persons on account of Permanent Loans...	254,414 00	
Received from Sundry Persons on account of Temporary Loans..	1,300,000 00	
	<hr/>	\$1,544,414 00
		<hr/>

APPROPRIATED.

Temporary Loans.	1,300,000 00	
Permanent Loans.	253,953 74	
Balance to General Treasury Fund Revenue.	460 26	
	<hr/>	\$1,554,414 00
		<hr/>

GENERAL TREASURY FUND, REVENUE.

Received into General Treasury		
Fund from Sundry departments	414,539 94	
Transferred from Sundry departments.....	2,550 00	
Transferred from General Treasury		
Fund Loans.....	460 26	
Balance from Sundry departments..	32,952 58	
	<hr/>	450,502 78
Balance of Appropriation in excess		
of Receipts.....		9,705 30
		<hr/>
		460,208 08
		<hr/>
Total Estimated Revenue	457,658 00	
Transferred to Sundry departments,	2,550 00	
	<hr/>	\$460,208 08
		<hr/>

DUE FROM THE CITY ON WATER LOAN.

DECEMBER 31, 1904.

Date of Securities.	To Whom Payable	Amount.	Rate.	Interest — When Due.	Interest Due in 1905	Notes and Installments When Due.	Payments Due, 1905
1881, Nov. 1. :	Blake Bros. & Co.....	75,000 00	4	May 1 and Nov. 1	\$ 3,000 00	1911, Nov. 1	
1890, Nov. 1. .	Sundry persons (bonds).....	1,000,000 00	4	May 1 and Nov. 1	40,000 00	1920, Nov. 1	
*1895, Aug. 7...	Sundry persons.....	30,000 00	4	Feb. 7 and Aug. 7	1,200 00	1905, Aug. 7	5,000 00
*1897, Nov. 8...	Lowell Institution for Savings.....	12,300 00	4	May 8 and Nov. 8	492 00	1905, Nov. 8	4,100 00
*1900, Aug. 8...	Estabrook & Co.....	45,000 00	4	Feb. 8 and Aug. 8	1,800 00	1905, Aug. 8	7,500 00
		1,162,300 00			46,492 00		16,600 00

* Driven Well Plant.

DUE FROM THE CITY ON ORDINARY CITY DEBT.

DECEMBER 31, 1904.

Date of Securities.	To Whom Payable	Amount.	Rate.	Interest — When Due.	Interest Due in 1905	Notes and Installments When Due.	Payments Due, 1905
*1871, Mar. 6...	Bequest of Thomas Nesmith.....	\$25,000 00	6	March 6 and Sept. 6	\$1,500 00	Perpetual	
†1871, April 10.	Bequest of Thomas Nesmith.....	1,000 00	6	April 10 and Oct. 10	60 00	Perpetual	
†1878, May 10...	Bequest of Jonathan Tyler.....	10,000 00	6	May 10 and Nov. 10	600 00	Perpetual	
1890, Oct. 1...	Sundry persons (bonds).....	450,000 00	4	April 1 and Oct. 1	18,000 00	1920, Oct. 1	
1891, April 1...	Sundry persons (bonds).....	150,000 00	4	April 1 and Oct. 1	6,000 00	1921, April 1	
1895, Jan. 4...	Lowell Institution for Savings.....	1,200 00	4	Jan. 4	24 00	1905, Jan. 4	1,200 00
1895, Jan. 4...	National Bank of Redemption, Boston....	7,500 00	4	Jan. 4	150 00	1905, Jan. 4	7,500 00
1895, Aug. 7...	Sundry persons.....	10,000 00	4	Feb. 7 and Aug. 7	400 00	1905, Aug. 7	10,000 00
1895, Nov. 27...	Seaman's Bank for Savings, New York....	10,000 00	4	May 27 and Nov. 27	400 00	1905, Nov. 27	10,000 00
1896, May 5...	Lowell Institution for Savings.....	15,000 00	3½	May 5 and Nov. 5	407 81	1905, May 5	7,500 00
1896, May 6...	E. H. Rollins & Son.....	5,000 00	4	May 6 and Nov. 6	150 00	1905, May 6	2,500 00
1896, May 6...	E. H. Rollins & Son....	5,000 00	4	May 6 and Nov. 6	150 00	1905, May 6	2,500 00
1896, July 1...	Sundry persons (bonds).....	200,000 00	4	Jan. 1 and July 1	8,000 00	1926, July 1	
1896, Sept. 19.	New England Life Insurance Co., Boston..	3,800 00	4	March 19 and Sept. 19	152 00	1905, Sept. 19	1,900 00
1896, Nov. 18..	H. E. Rollins & Son.....	10,000 00	4	May 18 and Nov. 18	400 00	1905, Nov. 18	5,000 00
1897, May 11...	The Seaman's Bank for Savings, N. Y.....	22,500 00	4	May 11 and Nov. 11	750 00	1905, May 11	7,500 00
1897, Aug. 10..	Lowell Institution for Savings.....	13,500 00	4	Feb. 10 and Aug. 10	540 00	1905, Aug. 10	4,500 00
1897, Nov. 8...	Lowell Institution for Savings..	4,500 00	4	May 8 and Nov. 8	180 00	1905, Nov. 8	1,500 00
1897, Nov. 24..	Lowell Institution for Savings.....	3,030 00	4	May 24 and Nov. 24	121 20	1905, Nov. 24	1,010 00
1898, May 18...	Lowell Institution for Savings.....	40,000 00	4	May 18 and Nov. 18	1,400 00	1905, May 18	10,000 00
1898, July 9...	City Institution for Savings....	14,000 00	4	Jan. 9 and July 9	560 00	1905, July 9	3,500 00
1898, Aug. 6...	Commissioners of Sinking Funds.....	10,000 00	3½	Feb. 6 and Aug. 6	350 00	1905, Aug. 6	2,500 90
1898, Aug. 15..	Lowell Five Cent Savings Bank.....	2,080 00	4	Feb. 15 and Aug. 15	83 20	1905, Aug. 15	520 00
1898, Sept. 22.	Lowell Five Cent Savings Bank.....	12,000 00	4	March 22 and Sept. 22	480 00	1905, Sept. 22	3,010 00
1898, Oct. 4...	City Institution for Savings.....	14,400 00	4	April 4 and Oct. 4	576 00	1905, Oct. 4	3,600 00
1898, Nov. 9...	Lowell Institution for Savings.....	40,000 00	4	May 9 and Nov. 9	1,600 00	1905, Nov. 9	10,000 00
1898, Dec. 8...	Lowell Institution for Savings.....	19,200 00	4	June 8 and Dec. 8	768 00	1905, Dec. 8	4,800 00
1898, Dec. 8...	Lowell Institution for Savings.....	12,040 00	4	June 8 and Dec. 8	481 60	1905, Dec. 8	3,010 00
1899, Mar. 7 ..	Lowell Institution for Savings.....	17,500 00	3½	March 7 and Sept. 7	492 19	1905, March 7	3 500 00
1899, June 1...	Central Savings Bank.....	15,000 00	4	June 1 and Dec. 1	540 00	1905, June 1	3,000 00
1899, June 1...	Central Savings Bank.....	8,750 00	4	June 1 and Dec. 1	315 00	1905, June 1	1,750 00
1899, June 10..	Central Savings Bank.....	16,500 00	4	June 10 and Dec. 10	594 00	1905, June 10	3,300 00
1899, July 11...	Lowell Institution for Savings.....	6,000 00	4	Jan. 11 and July 11	240 00	1905, July 11	1,200 00
1899, Aug. 9...	Lowell Institution for Savings.....	14,750 00	3½	Feb. 9 and Aug. 9	460 94	1905, Aug. 9	2,350 00
1899, Aug. 9...	Lowell Institution for Savings.....	15,000 00	3½	Feb. 9 and Aug. 9	468 75	1905, Aug. 9	3,000 00
1899, Sept. 15..	Lowell Institution for Savings.....	14,000 00	3½	March 15 and Sept. 15	437 50	1905, Sept. 15	2,800 00
1899, Nov. 6...	Lowell Institution for Savings.....	3,050 00	3 8-10	May 6 and Nov. 6	115 90	1905, Nov. 6	610 00
1899, Nov. 17..	Lowell Institution for Savings.....	13,000 00	4	May 17 and Nov. 17	520 00	1905, Nov. 17	2,600 00
1899, Dec. 23..	Lowell Institution for Savings.....	5,000 00	4	June 23 and Dec. 23	200 00	1905, Dec. 23	1,000 00
1899, Dec. 30..	Lowell Institution for Savings.....	7,000 00	4	June 30 and Dec. 30	280 00	1905, Dec. 30	1,400 00
1900, Feb. 1...	Washington Savings Institution.....	3,600 00	3½	Feb. 1 and Aug. 1	115 50	1905, Feb. 1	600 00
1900, April 3...	Lowell Institution for Savings.....	40,800 00	3½	April 3 and Oct 3	1,168 71	1905, April 3	6,800 00
1900, April 14.	Lowell Institution for Savings.....	2,100 00	3½	April 14 and Oct. 14	60 16	1905, April 14	350 00
1900, April 21.	Lowell Institution for Savings.....	23,100 00	3½	April 21 and Oct. 21	651 72	1905, April 21	3,850 00
1900, May 22...	Lowell Institution for Savings.....	7,200 00	3½	May 22 and Nov. 22	206 25	1905, May 22	1,200 00
1900, Aug. 6...	Central Savings Bank.....	18,000 00	4	Feb. 6 and Aug. 6	720 00	1905, Aug. 6	3,000 00
1900, Oct. 15...	Washington Savings Institution.....	10,800 00	3½	April 15 and Oct. 15	378 00	1905, Oct. 15	1,800 00
1900, Oct. 31...	Lowell Institution for Savings.....	18,900 00	3½	April 30 and Oct. 31	630 00	1905, Oct. 31	3,000 00
1900, Dec. 26..	Commonwealth of Massachusetts.....	4,500 00	3½	June 26 and Dec. 26	157 50	1905, Dec. 26	750 00
1901, May 4...	Central Savings Bank.....	6,030 00	3½	May 4 and Nov. 4	197 92	1905, May 4	870 00
1901, May 23...	Lowell Institution for Savings.....	25,200 00	3½	May 23 and Nov. 23	760 50	1905, May 23	3,600 00
1901, July 27..	Lowell Institution for Savings.....	41,650 00	3½	Jan. 27 and July 27	1,353 62	1905, July 27	5,950 00
1901, Aug. 19...	Lowell Institution for Savings.....	38,500 00	3 3-10	Feb. 19 and Aug. 19	1,270 50	1905, Aug. 19	5,500 00
1901, Aug. 19...	Washington Institution for Savings....	10,500 00	3 3-10	Feb. 19 and Aug. 19	346 50	1905, Aug. 19	1,500 00
1901, Nov. 15...	Lowell Institution for Savings.....	20,930 00	3 3-10	May 15 and Nov. 15	690 69	1905, Nov. 15	2,990 00
1901, Dec. 20..	Lowell Institution for Savings.....	16,000 00	3 3-10	June 20 and Dec. 20	528 00	1905, Dec. 20	8,000 00
1901, Dec. 20.	Lowell Institution for Savings.....	8,400 00	3 3-10	June 20 and Dec. 20	277 20	1905, Dec. 20	1,200 00
1902, June 3...	Lowell Institution for Savings.....	51,120 00	3½	June 3 and Dec. 3	1,557 56	1905, June 3	6,390 00
1902, July 14...	Central Savings Bank.....	4,000 00	3½	Jan. 14 and July 14	130 00	1905, July 14	500 00
1902, Sept. 4...	Lowell Institution for Savings.....	44,384 00	3½	March 4 and Sept. 4	1,497 96	1905, Sept. 4	5,548 00
1902, Sept. 11..	Lowell Institution for Savings.....	49,324 00	3½	March 11 and Sept. 11	1,604 68	1905, Sept. 11	6,165 50
1902, Nov. 4...	Washington Institution for Savings.....	1,200 00	3½	May 4 and Nov. 4	42 00	1905, Nov. 4	400 00
1902, Nov. 4...	Washington Institution for Savings.....	6,680 00	3½	May 4 and Nov. 4	233 80	1905, Nov. 4	835 00
1902, Dec. 31..	Lowell Institution for Savings.....	16,000 00	3.55	June 30 and Dec. 31	568 00	1905, Dec. 31	2,000 00
1903, June 1...	Lowell Institution for Savings.....	87,930 00	3½	June 1 and Dec. 1	3,010 38	1905, June 1	9,770 00
1903, July 1 ...	Bond, Goodwin & Co.....	121,500 00	4	Jan. 1 and July 1	4,800 00	1905, July 1	13,500 00
1903, Sept. 8...	Lowell Institution for Savings.....	40,050 00	3½	March 8 and Sept. 8	1,551 94	1905, Sept. 8	4,450 00
1903, Sept. 26..	Lowell Institution for Savings.....	22,500 00	3 9-10	March 26 and Sept. 26	877 50	1905, Sept. 26	2,500 00
1903, Nov. 13...	Washington Institution for Savings.....	7,758 00	3½	May 13 and Nov. 13	300 62	1905, Nov. 13	862 00
1903, Dec. 31..	Lowell Institution for Savings.....	68,850 00	3 9-10	June 30 and Dec. 31	2,685 15	1905, Dec. 31	7,650 00
1904, May 24 ..	Lowell Institution for Savings.....	50,000 00	3½	May 24 and Nov. 24	1,721 87	1905, May. 24	5,000 00
1904, Aug. 9...	Lowell Institution for Savings.....	79,000 00	3½	Feb. 9 and Aug.	2,863 75	1905, Aug. 9	7,900 00
1904, Nov. 5...	Lowell Institution for Savings.....	52,900 00	3½	May 5 and Nov. 5	1,917 63	1905, Nov. 5	5,290 00
1904, Dec. 31..	Lowell Institution for Savings.....	72,514 00	3½	June 30 and Dec. 31	2,628 63	1905, Dec. 31	7,251 40
	Amount of City Debt.....	2,317,380 00		Int. Ordinary City Debt..	86,682 37	Installments Ord. City Debt	267,621 90
	Amount of Water Loan.....	1,162,300 00		Int. Water Loans..	46,492 00	Payments....	16,600 00
	Total Amount of City Debt.....	3,479,680 00		Total Int. City Debt.....	133,074 37	Total Installments City Debt	284,221 90
	Amount of Sinking Funds.....	650,447 62					
	Net City Debt.....	2,829,232 38					

* Interest on the same for the poor.

† Interest on the same for High Street Church.

‡ Interest on the same for the poor.

COST OF SEWERS LAID IN 1904.

Avon Street. Southerly from Fifth Ave., a distance of two hundred and eighty-five (285) feet	\$ 1,029 13
Avon Street. Northerly from Seventh Ave., a distance of eighty (80) feet	156 77
Beaulieu Street. From West Sixth St., easterly a distance of four hundred seventy six (476) feet	3,635 54
Boisvert Street. From West Sixth Street a distance of four hundred and thirty seven feet (437) feet	875 27
Bridge Street. From Billings Street, southeily a distance of one hundred fifty four (154) feet . .	330 20
By Street. From Barker Ave., westerly a distance of seven hundred and forty five (745) feet . . .	2,374 60
Canton Street.—Relaid from Middlesex St., southerly a distance of two hundred twenty four (224) feet	413 16
Colonial Ave. and Plymouth St., From Riverside Street, easterly in Colonial Ave., to Plymouth Street. and northerly in Plymouth St., a total distance of one thousand (1000) feet	3,933 66
City Ave.,—Relaid From a point near Palmer St., westerly a distance of one hundred and thirteen (113) feet	1,243 73
Dana Street From Ludlam Street, northerly a distance of three hundred forty eight (348) feet . . .	1,138 93
East Merrimack and Willow Sts.,—relaid; From a point near High St., easterly to Willow St. and sovtherly in Willow St., making a total distance of six hundred and seven (607) feet . .	\$2,003 77
East Merrimack Street. Outlet, In rear of Mill opp. Brown St., twenty eight (28) feet	288 47
Eaton Street. From London St., south a distance of one hundred and forty eight (148) feet	315 46
Forrest and Stevens Sts., From Chelmsford St., to Stevens, and northerly in Stevens St., making a total distance of three thousand six hundred and twenty three (3623) feet	37,389 68
Genoa Ave. Bodwell Ave. and Third Ave., From Sarah Ave., easterly to Bodwell Ave., northerly in Bodwell Ave., to Third Ave., and westerly in Third Ave., making a total distance of one thousand four hundred and thirty five (1435) feet	2,754 16

COST OF SEWERS LAID IN 1904.—Continued.

Highland Ave., From the end of the sewer formerly laid, southerly a distance of six hundred and fifty nine (659) feet	1,787 34
Lipton Street. From Midland St., southerly a distance of one hundred and eighty (180) feet....	394 80
Middlesex and Wood Sts., From Middlesex St., southerly in Wood St, a distance of three hundred and two (302) feet.....	448 49
Riverside St., From White St., northerly a distance of nine hundred and eleven (911) feet....	3,223 16
Saunders &ve., From the end of Sewer formerly laid, southerly a distance of five hundred fifty six (556) feet.....	1,469 26
Short Street. From Manufacturers St., westerly three hundred and ten (310) feet.....	512 39
Sutherland and Hildreth St., From the end of Sewer formerly laid in Sutherland St., westerly to Hildreth St., and northerly in Hildreth St., making a total distance of two hundred and seventy seven (277) feet.....	1,080 12
Staples Street. From Westford St., southerly a distance of two hundred and eighty two (282) feet	693 54
Stevens, West Forrest and Clifford Sts. From Jenness St., northerly in Stevens St. West Forrest St. westerly in West Forrest St. to Clifford St. and northerly in Clifford St. making a total distance of one thousand three hundred seventy-three (1373) feet.....	11,151 34
Stromquist Ave.—unfinished. From the end of the sewer in Meadowcroft St. at Lundberg St., southerly and westerly to point opposite the extension of Stromquist Ave. thence southerly in extension of Stromquist Avenue to a point opposite Cosgrove St., a distance of one thousand four hundred twelve (1412) feet.	26,606 78
Westford St. From Pine St., westerly a distance of two hundred seventy (270) feet.....	1,486 43
West Sixth St. From Ennell St., easterly a distance of four hundred thirteen (413) feet.....	1,257 67
Woodcock St. From Gershom Ave., northerly a distance of two hundred eighty-one (281) feet..	957 15

COST OF SEWERS LAID IN 1904.—Continued.

White St. extension,—unfinished. From White St. at Riverside St., southeasterly in the bed of the Merrimack River and bordering on Colonial Ave., a distance of five hundred ninety-five (595) feet.....	6,011 85
Cost of Sewers in 1904.....	114,962 85
Cost of Sewers constructed previous to 1904.....	2,790,442 99
Total cost of Sewers to Jan. 1, 1905.....	<u>2,905,405 84</u>

PUBLIC BUILDINGS AND THEIR VALUATION—1904.

City Hall.....	\$ 410,000 00	
Memorial Building.....	200,000 00	
Police Station.....	88,000 00	
City Scales.....	750 00	
Public Landing and Police Stable..	9,500 00	
Lands and Building on Fletcher Street....	3,000 00	
Lands and Buildings on Fletcher, Cross, Broadway and La- grange Streets.....	100,000 00	
City Farm and Buildings... .	200,000 00	
Rifle Range.....	14,000 00	
		<hr/>
		1,025,250 00

FIRE ENGINE HOUSES.

Branch Street.....	22,000 00	
Central Street.....	11,000 00	
Fletcher Street.....	18,000 00	
Fourth Street.....	15,000 00	
Gorham Street.....	27,000 00	
High Street... .	24,000 00	
Lincoln Street.....	5,500 00	
Lawrence Street.....	26,000 00	
Merrimack Street.....	5,000 00	
Mammoth Road.....	15,500 00	
Palmer Street.....	90,000 00	
Westford Street.....	18,000 00	
Warren Street.....	11,000 00	
		<hr/>
		288,000 00

SCHOOL HOUSES.

High School.....	250,000 00	
High School Annex.....	105,000 00	
Bartlett (old).....	25,000 00	
Bartlett (new).....	108,000 00	
Butler	63,000 00	
Colburn.....	25,000 00	
		<hr/>
Amounts carried forward.....	576,000 00	1,313,250 00

SCHOOL HOUSES—Continued.

Amounts brought forward.....	576,000 00	1,313,250 00
Edson.....	25,000 00	
Franklin.....	25,000 00	
Green:....	105,000 00	
Highland.....	67,000 00	
Lincoln.....	77,000 00	
Moody (new).....	80,000 00	
Moody (old).....	20,000 00	
Mann.....	25,000 00	
Pawtucket.....	53,000 00	
Varnum.....	110,000 00	

Primary Schools :

Oakland.....	12,000 00	
Powell Street.....	8,000 00	
Plain Street.....	21,000 00	
London Street Annex.....	1,000 00	
London Street.....	5,000 00	
School Street.....	7,500 00	
Pond Street.....	6,000 00	
High Street.....	9,000 00	
Carter Street.....	52,000 00	
Fayette Street.....	3,500 00	
Cross Street.....	24,000 00	
Billings Street.....	16,000 00	
Cabot Street.....	23,500 00	
Middlesex Village (old).	2,000 00	
Middlesex Village (new).....	16,000 00	
West Sixth Street.....	7,000 00	
Mammoth Road.....	1,500 00	
Lakeview Ave. and Annex..	9,500 00	
Ames Street.....	9,500 00	
Tenth Street.....	9,000 00	
Favor Street.....	28,000 00	
Cottage Street.....	4,500 00	
Charles Street.....	20,000 00	
Training.....	31,000 00	
Cheever Street.....	12,000 00	
Chapel Street.....	4,000 00	
Central Street.....	13,500 00	
Howard Street.....	5,000 00	

Amounts carried forward.....	1,524,000 00	1,313,250 00
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SCHOOL HOUSES—Continued.

Amounts brought forward..... .. \$1,524,000 00 \$1,313,250 00

Worthen Street	25,000 00
Lyons Street.....	20,000 00
Dover Street.....	13,500 00
Morrill School.....	19,000 00
Agawam Street.....	9,000 00
Grand Street.....	5,000 00
Kirk Street.....	18,000 00
Weed Street.....	10,500 00
Lexington Ave.....	10,000 00
Moody Street.....	20,000 00
Pine Street	23,000 00
Lilley Ave.....	1,000 00
Highland Annex	3,700 00

1,701,700 00

Other Real Estate

Lot of Land on Chelmsford Street..	5,000 00
Lot of Land on Fletcher and Bowers Streets.....	20,000 00
Lot of Land on Tenth Street.....	5,000 00
North Common	100,000 00
South Common	200,000 00
Mount Vernon Park ...	4,350 00
Belvidere Park	20,000 00
Wilson Park.....	200 00
Rogers Fort Hill Park.....	150,000 00
Tyler Park	8,000 00
Varnum Park.....	6,000 00
Monument Square.	15,000 00

533,550 00

\$3,548,500 00

WATER WORKS.

The Real Estate and Personal Property belonging
to the City, occupied and used by the Water
Works..... \$4,375,888 67

BURIAL GROUNDS OWNED BY THE CITY.

- No. 1 Burial Ground on Schol Street.
- No. 2 Burial Ground on Gorham Street.
- Edson Cemetery on Gorham Street.

PERSONAL PROPERTY OWNED BY THE CITY IN
CHARGE OF THE SEVERAL DEPARTMENTS.

Auditor.....	50 00	
City Clerk.....	250 00	
City Treasurer.....	500 00	
City Weigher.....	250 00	
City Sealer.....	250 00	
City Messenger.....	250 00	
City Cemeteries.....	1,520 25	
Clerk of Committees.....	170 50	
Engineering.....	3,355 60	
Elections.....	1,150 00	
Fire Department.....	154,000 00	
Health.....	10,258 80	
Inspector of Milk.....	827 99	
Inspector of Wires.....	655 44	
Law.....	3,030 35	
Library.....	70,500 00	
Mayor.....	250 00	
Paupers, Out Door Relief.....	4,000 00	
Lowell City Hospital and Alms- house.....	21,525 78	
Police.....	30,181 02	
Public Buildings.....	12,091 74	
Parks.....	4,821 85	
Registrars.....	50 00	
Schools.....	51,368 10	
Streets.....	42,797 97	
Sewers.....	22,313 47	
State Aid.....	250 00	
Supply.....	530 94	
Watering Streets.....	7,442 00	
Bell and Clock High St. Church...	1,000 00	
Lighting.....	17,000 00	
Boulevard.....	3,078 65	
		<hr/>
		\$465,720 45

BALANCE SHEET OF ASSETS AND LIABILITIES DECEMBER 31, 1904.

ASSETS.

Ordinary City Debt Sinking Fund.....	\$ 244,017 40
Water Debt Sinking Fund..	406,430 22
Taxes, Due.....	573,335 33
Sidewalk Assessment.....	14,718 19
Sewer Assessment.....	14,152 13
Watering Street Assessment	8,298 38
Cash in Treasury.....	255,336 03
Total Available Assets.....	1,516 287 68
Real and Personal Property belonging to the Water Works.....	4,375,888 67
Other Real Estate.....	3,548,500 00
Other Personal Property..	465,720 45
Total Unavailable Assets.....	8,390,109 12
Total Available Assets.....	1,516,287 68
Grand Total of Available and Unavailable Assets.....	9,906,396 80

LIABILITIES

Ordinary City Debt.....	\$ 2,317,380 00
Water Debt.....	1,162,300 00
Total Gross City Debt.....	\$ 3,479,680 00
Temporary Loans.....	800,000 00
Balances Unexpended.....	34,037 16
Total Liabilities.....	4,313,717 16
Surplus of Assets.....	5,592,679 64
Grand Total of Liabilities and Surplus.....	\$ 9,906,396 80

ACCOUNT OF CITY TREASURER AND COLLECTOR
OF TAXES FOR THE YEAR 1904.

Lowell, Mass., Jan. 1, 1905.

To the Honorable the City Council :

Gentlemen :—I have the honor to submit the following report of the receipts and expenditures of the City of Lowell for the financial year 1904.

Respectfully submitted,

ANDREW G. STILES,

City Treasurer and Collector of Taxes.

Andrew G. Stiles, City Treasurer and Collector of Taxes, in

Dr. To Cash received on account of:

Cash balance Jan. 1, 1904.....	\$166,476 80	
Engineering	7,755 12	
Fire Department, Sundries.....	185 33	
Health Office, Sundries.....	175 70	
Health Yard, Labor.....	163 75	
Inspector of Wires, Sundries.....	09	
Parks, Sundries	94 59	
Almshouse, Grain, Groceries and Provisions.....	8,745 36	
Almshouse, Sundries.	1,311 00	
Out-Door Relief, General Sundries,	136 20	
Police, Salaries and Labor.....	1,206 51	
Public Buildings, Carpenters.....	1,272 81	
Public Buildings, Materials.....	49 60	
Schools ..	13 60	
School Houses, Labor.....	1,120 44	
School Houses, Kalsomining and Materials.....	1,119 01	
Sewers Maintenance, Labor.....	509 54	
Sewers Maintenance, Sundries.....	3,208 43	
State Aid.....	50 00	
Soldiers Relief	48 00	
Streets, Labor.....	83 10	
Streets, Yard Labor.....	533 55	
Streets, Sundries.....	2,318 46	
Watering Streets, Labor.....	28 00	
Watering Streets, Sundries.....	1,372 00	
Water Works	197,073 64	
City Debt.....	91,810 29	
Sewers Construction.....	16 00	
Fourth of July.....	8 00	
	<hr/>	\$487,884 92

GENERAL TREASURY FUND RECEIPTS.

City Cemeteries	\$8,104 75	
Amounts carried forward.....	<hr/> \$8,104 75	<hr/> \$487,884 92

Account with the City of Lowell for the Financial Year 1904.

By Cash paid on account of:

Cr.

Abatement of Taxes.....	48,496 19
Assessors, Salaries.....	12,534 13
Sundries.....	1,147 58
Anditor, Salaries.....	3,527 00
Sundries	440 84
Care City Hall, Labor.....	5 325 00
Police Officer... ..	1,006 50
Sundries	900 00
City Cemeteries	8,971 63
City Clerk, Salaries.....	4,628 00
Sundries	1,063 03
City Treasurer, Salaries.....	7,340 00
Sundries	4,022 85
City Sealer, Salaries.....	350 00
Sundries	66 65
City Weigher, Salaries.....	800 00
Sundries	18 50
City Messenger, Salaries.....	1,200 00
Sundries	399 89
Lighting	1,550 16
Clerk Committees, Salaries.....	1,200 00
Sundries	140 85
Clerk of Couucil.....	300 00
Elections.....	13,302 25
Fish Warden.....	40 00
Pound Keeper	2 92
Engineering	15,033 45
Fire Department, Salaries.....	109,854 23
Sundries	24,449 85
Health Office, Salaries.....	9,135 00
Sundries	2,621 26
Health Yard, Labor.....	28,637 26
Sundries	5,048 43
Heating City Hall and Memorial Buildings, Labor.....	2,984 00
Fuel	4,300 00
Sundries	644 38
Huntington Hall.....	4,556 08
Rifle Range, Janitor.....	456 13
Targets	83 63

Amount carried forward.....

\$326,577 67

Andrew G. Stiles, City Treasurer and Collector of Taxes, in

Dr. To Cash received on account of :

Amounts brought forward.....	\$8,104 75	\$487,884 92
City Clerk.....	1,379 77	
City Treasurer.....	2,993 50	
City Sealer.....	332 39	
City Weigher.....	175 92	
Fire Department.....	147 53	
Health.....	4,004 46	
Huntington Hall.....	2,063 00	
Inspector Milk.....	104 50	
Almshouse.....	5,476 20	
Out-Door Relief.....	4,893 74	
Police.....	17,039 63	
Public Buildings.....	2,407 00	
Schools.....	6,086 00	
Sewers.....	135,574 56	
Streets.....	57,976 26	
State Aid.....	14,701 00	
Military Aid.....	2,447 50	
Soldiers Relief.....	746 00	
Watering Streets.....	16,199 37	
Interest.....	36,206 14	
Temporary Loans.....	1,300,000 00	
Taxes of 1889.....	18,032 00	
Taxes of 1900.....	50 68	
Taxes of 1901.....	234 61	
Taxes of 1902.....	157,664 84	
Taxes of 1903.....	170,171 45	
Taxes of 1904.....	1,148,616 91	
Incidentals.....	3,500 35	
Corporation Tax.....	66,415 80	
Liquor Licenses.....	171,899 00	
Tewksbury Explosion.....	780 61	
Heating.....	1,301 93	
City Parks.....	1,072 00	
Police Underground Wires.....	2,000 00	
Fire Dept. Underground Wires....	2,000 00	
Richardson Bill.....	5,400 00	
Four - room Building, Highland School.....	2,700 00	
Amounts carried forward.....	\$3,370,889 40	\$487,884 92

Account with the City of Lowell for the Financial Year 1904.

By cash paid on account of

Cr.

Amount brought forward..... \$326,577 67

Taxes.....	79 45
Repairs	71 66
Improvements.....	299 94
Inspector of Animals.....	500 00
Incidentals.....	2,573 61
Insurance	5,287 77
Inspector of Milk, Salaries	2,206 50
Sundries	138 37
Inspector of Wires, Salaries.....	2,128 00
Sundries.....	737 74
Law. Salaries.....	4,828 01
Sundries	714 24
Lighting Streets.....	101,201 39
Public Buildings.....	20 34
Sundries	147 37
Library	16,000 00
Liquor Licenses.....	42,974 00
Mayor. Salary.....	4,200 00
Sundries.....	186 22
Stenography.....	7 25
Parks, Salaries and Labor.....	8,551 38
Sundries.....	3,544 48
Almshouse, Salaries.....	2,700 00
Grain, Groceries and Provisions	32,627 38
Labor.....	12,618 48
Sundries.....	23,675 17
Out-Door Relief, Salaries.....	3,785 00
General Sundries.....	48,496 15
Office Sundries.....	825 86
Police, Salaries and Labor.....	132,482 13
Board and Clerk.....	5,000 00
Sundries	7,099 34
Public Buildings, Salaries	2,268 00
Carpenters, etc.....	8,239 00
Janitor Police Station	912 50
Asst. Janitor Police Station...	818 97
Janitor Memorial Buildings...	702 00
Board of Horses.....	1,264 94

Amount carried forward.....

\$806,490 31

Andrew G. Stiles, City Treasurer and Collector of Taxes in

Dr. To Cash received on account of :

Amounts brought forward \$3,370,899 40 \$487,884 92

Bath Room F. & B. St. Engine		
House	800 00	
Bath Room Fourth St. Engine		
House	600 00	
Sanitary Imp. Sundry Schools	600 00	
Repairs Steamer 3	2,000 00	
Excise Tax	7,166 26	
National Bank Tax	8.605 70	
State Tax	1,200 00	
Street Railway Tax	7,834 57	
School Houses	4 50	
Claims and Damages	1,014 00	
Carbage Cremator	10,000 00	
Additional Dept. Appropriations . .	53,000 00	
	<hr/>	3,463,724 43
		<hr/>
		<u>\$3,951,609 35</u>

Account with the City of Lowell for the Financial Year 1904.

By cash paid on account of	Cr
Amounts brought forward.....	\$806,490 31
Work not done by Dept.....	5,087 16
Materials	4,043 52
Electric Power at Shop	254 76
Repairing Boiler at City Hall..	1,499 98
Repairing Palmer St. Engine House	1,500 00
New Boiler Branch St. Engine House	499 98
Almshouse Repairs.....	2,499 81
Painting City Hall.....	278 55
Registrars, Salaries and Labor.....	3,261 25
Sundries.....	824 26
Schools	299,532 79
School Houses, Labor.....	11,580 19
Janitors	40,606 73
Kalsomining, Materials, etc...	11,590 02
Repairing Fuller & Warren Furnaces	980 52
New Boiler Lyon St. School..	500 00
New Boiler Training School..	499 97
New Chimney Highland School	125 00
Concrete School Basements...	200 00
Sewers Maintenance, Salaries.....	2,896 27
Labor.....	12,451 57
Sundries	11,767 06
State Aid, Salaries and Sundries...	2,107 14
Military Aid	3,931 00
Soldiers Relief.....	9,071 04
Streets, Salaries.....	4,000 00
Labor.....	131,589 46
Yard Labor.....	11,501 94
Sundries	53,503 58
Sidewalk Repairs.....	4,999 20
New Sidewalks	8,405 40
Supply. Salaries.....	5,444 58
Sundries.....	922 63
Watering Streets, Labor.....	5,011 71
Sundries	11,844 06
Amounts carried forward.....	\$1,471,301 44

Andrew G. Stiles, City Treasurer and Collector of Taxes, in
Account with the City of Lowell for the Financial Year 1904.

By cash paid on account of :

Cr.

Amount brought forward \$1,471,301 44

State Aid, Aid	14,937 50
Taxes Cases.....	292 50
Water Works.....	181,298 24
City Debt.....	367,390 79
Interest	117,289 93
Temporary Loans.....	1,200,000 00
Sinking Funds.....	38,300 00
Corporation Tax	46 32
County Tax.....	78,478 87
State Tax	63,034 43
National Bank Tax.....	11,603 35
State Supervisors.....	824 00
Taxes	335 80
Edson Cemetery Annex	654 64
Laying out By Street.....	2,483 13
Sewers Construction.....	115,989 42
Health, Small Pox.....	1,010 02
Memorial Day G. A. R	1,000 00
“ “ S. W. V.....	200 00
Parks, Care of Trees.....	999 99
Lowell Textile School.	8,000 00
Fourth of July.....	2,640 32
Band Concerts.....	650 00
Claim for Damages.....	1,239 00
Bennett Portrait.....	300 00
Police Underground Wires....	1,272 81
Fire Dept. Underground Wires....	1,311 67
Four-room Bldg. Highland School,	2,699 57
Improvement Sanitary Condition	
Colburn School.....	1,999 82
Sanitary Improvem't Sundry Schools	599 90
Richardson Bill.....	5,400 00
Fire Alarm Box, Aiken Ave.....	150 00
Bath Room 4th St. Engine House..	599 84
Bath Room Fletcher and Branch	
St. Engine House	800 00
Repairs of Steamer 3.....	14 25

Amount carried forward..... \$3,695,148 40

Andrew G. Stiles, City Treasurer and Collector of Taxes, in
Account with the City of Lowell for the Financial Year 1904.

By cash paid on account of :

Cr.

Amount brought forward.....		\$3,695,148 40
Butler Portrait.....	300 00	
Middlesex Village School Bell.....	307 88	
Rebates Huntington Hall.....	420 00	
State Highway Tax.....	97 04	
	<hr/>	3,696,273 32
Cash balance Dec. 31, 1904.....		255,336 03
		<hr/>
		\$3,951,609 35

REPORT OF THE COMMISSIONERS OF THE SINKING FUNDS FOR THE YEAR 1904.

Lowell, Mass., Jan. 2, 1905.

To the Honorable the City Council of Lowell :

Gentlemen :—The Commissioners of Sinking Funds of the City of Lowell have the honor to submit the following report of the several Sinking Funds of said City and of the Hapgood Wright Centennial Trust Fund, for the year 1904.

Full value of all Sinking Funds Jan. 1, 1905.....	\$650,447 62
Full value of all Sinking Funds Jan. 1, 1904.....	659,215 25
Decrease during the year 1904.....	<u>\$8,767 63</u>

Value of Water Loan Sinking Funds Jan. 1, 1905,	\$406,430 22
Value of Water Loan Sinking Funds Jan. 1, 1904,	373 505 74
Increase during the year 1904.....	<u>\$32,924 48</u>

Value of all other Sinking Funds Jan. 1, 1905....	\$244,017 40
Value of all other Sinking Funds Jan. 1, 1904 ...	285,709 51
Decrease during the year 1904.....	<u>\$41,692 11</u>

Total decrease as above	<u>\$8,767 63</u>
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Value of the Hapgood Wright Centennial Trust Fund Jan. 1, 1905	\$3,268 93
Value of the Hapgood Wright Centennial Trust Fund Jan. 1, 1904.	3,143 24
Increase during the year.	<u>\$125 69</u>

During the year the Extension of Rogers Fort Hill Park Sinking Fund has been closed.

A statement of the receipts, payments and present value of the several Sinking Funds and a list of the securities in each fund follows :

214 REPORT OF THE COMMISSIONERS OF SINKING FUNDS.

Water Loan Sinking Fund.	SECURITIES.	CASH.	TOTAL.
On hand Jan. 1, 1904.....	\$307,500 00	\$ 9,835 14	\$317,335 14
Received during 1904:			
Cash—Annual Appropriation		\$ 16,000 00	
Income on Investments.....		13,777 50	
Income on Bank Deposits.....		470 01	
Securities matured or sold.....		6,500 00	
Securities bought in 1904.....	40,000 00		
		46,582 65	
		41,377 22	
Paid for Securities in 1904.....			
On hand Jan. 1, 1905	\$341,000 00	\$ 5,205 43	\$346,205 43
Increase during 1904.....			\$ 28,870 29
Securities belonging to this fund:			
3 City of Springfield coupon bonds, 6 per cent..	\$ 3,000 00		
4 City of Lewiston coupon bonds, 5 per cent ...	4,000 00		
10 Town of Sharon coupon bonds, 4 per cent....	10,000 00		
12 Town of Athol coupon bonds, 4 per cent.....	12,000 00		
15 City of Portsmouth coupon bonds, 4 per cent.	15,000 00		
14 City of Waterville coupon bonds, 4 per cent..	14,000 00		
14 City of Saginaw coupon bonds, 4 per cent....	14,000 00		
4 City of Everett registered bonds, 4 per cent..	4,000 00		
1 City of Boston registered bonds, 4 per cent....	61,000 00		
1 City of Lowell registered bonds, 3½ per cent..	10,000 00		
15 Fitchburg R. R. coupon bonds, 4 per cent....	15,000 00		
8 C. B. & Q. Neb. Ext. R. R. coupon bonds, 4 per cent.....	8,000 00		
4 Illinois Central R. R. coupon bonds, 4 per cent.	4,000 00		
18 Portland & Odgensburg R. R. coupon bonds, 5 per cent.....	18,000 00		
1 Boston & Maine A. R. registered bonds, 4½ per cent.....	10,000 00		
30 Northwestern Union R. R. coupon bond , 7 per cent.....	15,000 00		
9 New York, Lackawanna & Western R. R. coupon bonds, 6 per cent	9,000 00		
48 Town of Northfield coupon bonds, 3½ per cent.	24,000 00		
3 Boston & Maine R. R. coupon bonds, 4 per cent.....	3,000 00		
50 Lowell & Suburban St. R. R. coupon bonds, 5 per cent.....	50,000 09		
2 St. Johnsbury & Lake Champlain coupon bonds, 5 per cent.....	2,000 00		
1 Town of Denvers coupon bonds, 4 per cent....	1,000 00		
15 Lynn & Boston St. R. R. coupon bonds, 5 per cent.....	15,000 00		
20 Illinois Central R. R. coupon bonds, 3½ per cent.....	20,000 00		
			341,000 00
Cash on deposit in Appleton National Bank.....			5,205 43
			\$346,205 43

High Service Water Loan Sinking Fund.	SECURITIES.	CASH.	TOTAL.
On hand Jan. 1, 1904	\$50,000 00	\$6,170 60	\$56,170 60
Received during 1904:			
Cash—Annual Appropriation		1,800 00	
Income on Investments		2,600 00	
Income on Bank Deposits		108 77	
Securities matured or sold		1,000 00	
Securities bought in 1904	10,000 00		
Paid for Securities in 1904		11,679 37	
		10,454 58	
On hand Jan. 1, 1905	\$59,000 00	\$1,224 79	\$60,224 79
Increase during the year 1904			\$4,654 19
Securities belonging to this fund:			
2 City of Beverly coupon bonds, 4 per cent.....	\$ 2,000 00		
1 City of Cambridge coupon bonds, 6 per cent...	1,000 00		
4 Town of Denvers coupon bonds, 5 per cent....	4,000 00		
1 Town of Rockport coupon bonds, 4 per cent. .	1,000 00		
1 City of Portsmouth coupon bonds, 4 per cent..	1,000 00		
4 City of Saginaw coupon bonds, 4 per cent.....	4,000 00		
4 C. B. & Q. Neb. Ext. R. R. coupon bonds, 4 per cent.....	4,000 00		
1 City of Lynn registered bonds, 4 per cent... .	20,000 00		
4 Portland & Odgensbury R. R. coupon bonds, 5 per cent.....	4,000 00		
7 Winona & St. Peter R. R. coupon bonds, 7 per cent.....	7,000 00		
2 New York, Lackawanna & Western R. R. coupon bonds, 6 per cent.....	2,000 00		
1 Boston & Maine R. R. coupon bonds, 4 per cent.....	1,000 00		
1 Winona & St. Peter R. R. coupon bond, 7 per cent.....	1,000 00		
2 Lowell & Suburban St. R. R. coupon bonds, 5 per cent.....	2,000 00		
5 N. Y., N. H. & H. R. R. coupon bonds, 4 per cent.....	5,000 00		
Cash on deposit in Appleton National Bank.....			59,000 00
			1,224 79
			\$60,224 79

216 REPORT OF THE COMMISSIONERS OF SINKING FUNDS.

Lowell High School Sinking Fund.	SECURITIES	CASH.	TOTAL.
On hand Jan. 1, 1904.....	\$41,710 29	\$5,416 12	\$47,126 41
Received during 1904:			
Cash—Annual Appropriation...		3,000 00	
Income on Investments.....		1,883 68	
Income on Bank Deposits.....		65 86	
Securities matured.....		1,210 29	
Securities bought in 1904.....	10,000 00		
		\$11,575 95	
Paid for Securities in 1904.....		10,454 58	
On hand Jan. 1, 1905	\$50,500 00	\$1,121 37	\$51,621 37
Increase during 1904.....			\$4,494 96
Securities belonging to this Fund:			
1 City of Keene coupon bonds, 4 per cent..	\$ 500 00		
1 City of Lynn coupon bonds, 5 per cent.....	1,000 00		
12 City of Taunton coupon bonds, 4 per cent....	12,000 00		
7 City of Portsmouth coupon bonds, 4 per cent..	7,000 00		
5 City of Indianapolis coupon bonds, 4 per cent.	5,000 00		
4 Fitchburg R. R. coupon bonds, 4 per cent....	4,000 00		
5 C. B. & Q, Neb. Ext. R. R. coupon bonds, 4 per cent.....	5,000 00		
7 Illinois Central R. R. coupon bonds, 4 per cent	7,000 00		
2 City of Saginaw coupon bond, 4 per cent.....	2,000 00		
1 Boston & Maine R. R. coupon bonds, 4 per cent	1,000 00		
5 N. Y., N. H. & H. R. R. coupon bonds, 4 per cent.....	5,000 00		
1 New York, Lakawanna & Western R. R. coupon bonds, 6 per cent.....	1,000 00		
			50,500 00
Cash deposit in Appleton National Bank.....			1,121 37
			\$51,621 37

Extension of Rogers Fort Hill Park Fund.	SECURITIES.	CASH.	TOTAL.
On hand Jan. 1, 1904.....	\$43,000 00	\$20,792 58	\$63,792 58
Received during 1904:			
Cash—Annual Appropriation...		6,000 00	
Income on Investments....		200 00	
Income on Bank Deposits.....		242 99	
Securities sold or matured and paid.....		42,974 72	
Paid during 1904:		\$70,210 29	
Cash—City of Lowell to close Sinking Fund....		70,210 29	
Securities sold or charged off.....	\$43,000 00		
Decrease during 1904			\$63,792 58

New School Houses Sinking Fund.	SECURITIES.	CASH.	TOTAL.
On hand Jan. 1, 1894	\$23,000 00	\$5,630 24	\$28,630 24
Received during 1904:			
Cash—Annual Appropriation.....		4,000 00	
Income on Investments		1,100 00	
Income on Bank Deposits.....		73 40	
Securities bought in 1904.....	10,000 00		
		\$10,803 64	
Paid for Securities in 1904		10,454 58	
On hand Jan. 1, 1905	\$33,000 00	\$349 06	\$33,349 06
Increase during 1904.....			\$4,718 82
Securities belonging to this Fund:			
8 City of Indianapolis coupon bonds, 4 per cent.	\$8,000 00		
3 C. B. & Q. Neb Ext. R. R. coupon bonds, 4 per cent.....	3,000 00		
5 Illinois Central R. R. coupon bonds, 4 per cent	5,000 00		
2 Winona & St. Peter R. R. coupon bonds, 7 per cent.....	2,000 00		
1 New York, Lackawanna & Western R. R. coupon bonds, 6 per cent	1,000 00		
5 City of Lynn registered bonds, 4 per cent....,	5,000 00		
4 Boston & Maine R. R. coupon bonds, 4 per cent.....	4,000 00		
5 N. Y., N. H. & H. R. R. coupon bonds, 4 per cent.....	5,000 00		
			33,000 00
Cash on deposit in Appleton National Bank.....			349 06
			\$33,349 06

City Hall and Memorial Building Sinking Fund.	SECURITIES.	CASH.	TOTAL.
On hand Jan. 1, 1904	\$125,000 00	\$21,160 28	\$146,160 28
Received during 1904: ..			
Cash—Annual Appropriation.....		7,500 00	
Income on Investments.....		6,218 32	
Income on Bank Deposits.....		160 03	
Securities matured.....		3,500 00	
Securities bought in 1904.....	36,000 00		
Paid for Securities in 1904		\$38,538 63	
		36,991 96	
On hand Jan. 1, 1905	\$157,500 00	\$1,546 97	\$159,046 97
Increase during the year 1904.....			\$12,886 69
Securities belonging to this Fund;			
4 Town of Bradford coupon bonds, 4 per cent. . .	\$ 4,000 00		
5 City of Brockton coupon bonds, 4 per cent....	5,000 00		
1 Town of Reading coupon bonds, 4 per cent....	1,000 00		
6 Town of Wrentham coupon bonds, 4 per cent..	6,000 00		
9 Town of Arlington coupon bonds, 4 per cents..	9,000 00		
8 Town of Stoughton coupon bonds, 4 per cent..	8,000 00		
7 City of Saginaw coupon bonds, 4 per cent....	7,000 00		
6 Fitchburg R. R. coupon bonds, 4 per cent....	6,000 00		
1 City of Boston registered bonds, 4 per cent....	21,000 00		
1 City of Brockton registered bonds 4 per cent..	1,000 00		
10 C. B. & Q. Neb. Ext. R. R. coupon bonds, 4 per cent.....	10,000 00		
19 Illinois Central R. R. coupon bonds, 4 per cent.....	19,000 00		
2 Milwaukee & Lake Shore R. R. coupon bonds, 5 per cent.....	2,000 00		
7 N. Y. Lack. & Western R. R. coupon bonds, 6 per cent.....	7,000 00		
7 City of Indianapolis coupon bonds, 4 per cent.	7,000 00		
1 City of Brockton registered bonds, 4 per cent.	1,000 00		
9 Town of Northfield coupon bonds, 3½ per cent	4,500 00		
11 Winona & St. Peter R. R. coupon bonds 7 per cent.....	11,000 00		
6 City of Malden coupon bonds, 4 per cent.....	6,000 00		
5 Lynn & Boston St. R. R. coupon bonds, 5 per cent.....	5,000 00		
5 N. Y. N. H. & H. R. R. coupon Bonds, 4 per cent	5,000 00		
5 Illinois Central R. R. coupon bonds, 3½ per cent	5,000 00		
7 City of Portsmouth coupon bonds, 4 per cent.	7,000 00		
Cash on deposit in Appleton National Bank....		157,500 00	
		1,546 97	
			\$159,046 97

Hapgood Wright Centennial Trust Fund.	SECURITIES.	CASH.	TOTAL.
On hand Jan. 1, 1904		\$3,143 24	\$3,143 24
Received during 1904:			
Cash—Interest on Bank Deposits.....		125 69	3,268 93
On hand Jan. 1, 1905			\$3,268 93
Increase during the year ..			\$125 69
Securities belonging to this Fund:			
Cash deposited in Lowell Institution for Savings		663 06	
Cash deposited in City Institution for Savings..		2,605 87	3,268 93
			\$3,268 93

Respectfully submitted,

AUSTIN K. CHADWICK,

FRED A. BUTTRICK,

CHARLES L. KNAPP,

Commissioners of Sinking Funds for the City of Lowell for the
year 1904.

STATEMENT OF THE CITY TREASURER RELATING
TO SPECIAL FUNDS FOR CARE OF PUBLIC
BURIAL GROUNDS.

Lowell, Mass., Jan. 2, 1905.

To the Honorable the City Council of the City of Lowell :

Gentlemen :—I have the honor to submit the following statement of special funds in my hands, deposited for perpetual care of lots in the Public Burial Grounds of the City of Lowell :

On hand Jan. 1, 1904..... \$33,225 00

Received during the year :

From Elizabeth C. Kennedy	150 00
John W. Pead, Adm.....	100 00
Alonzo J. Page.....	100 00
Thomas Smith.....	100 00
Betsey A. Perry.....	100 00
Sarah Head	100 00
Mrs. Daniel G. Wilson	100 00
“ “ “ “	100 00
Annie F. Coffey	100 00
Annie S. Harlow.....	100 00
Sally P. Robinson.....	100 00
May E. Chase.....	100 00
Sarah E. Isherwood.....	100 00
Geo. C. Blanchard.....	100 00
Mrs. R. H. Blake.....	100 00
Geo. W. Brothers.....	100 00
John J. Humphrey.....	100 00
Thomas England.....	100 00
O. W. Waller.....	100 00
Mary E. Offutt	100 00
John L. Robertson.....	100 00
Mary E. Offutt	100 00
Mrs. P. A. Morgan	100 00

STATEMENT OF THE CITY TREASURER RELATING
TO SPECIAL FUNDS FOR CARE OF BURIAL
GROUNDS—Continued.

Angenette D. Clarke.....	100 00
Lester L. Wells.....	100 00
James Fife.....	100 00
Malcolm Currie.....	100 00
Jonas Whatmough.....	100 00
May A. Adams.....	100 00
O. A. Court.....	100 00
Agnes Carnes.....	100 00
Mabel E. Mitchell.....	100 00
Clara M. Dryden.....	100 00
Andrew Moffatt.....	100 00
Clarendon Goodwin.....	100 00
J. B. Currier.....	300 00
“ “.....	100 00
Joel M. Scoble.....	100 00
Chas. A. Wotton for Mrs. Hugh Boyd.....	100 00
James R. Fulton.....	100 00
Hattie Crowfoot.....	100 00
J. A. Weinbeck for Morton E. Bean.....	100 00
Horace C. Page, Executor.....	100 00
James F. Stearns.....	100 00
“ “ “.....	100 00
Cora M. Pulsifer.....	100 00
Alden I. Gifford.....	100 00
Phoebe Rotheray.....	100 00
Jos. E. Shepard, Executor.....	400 00
Sarah A. Bramhall.....	100 00
P. N. Giles.....	100 00
Mrs. Jane Stevens.....	100 00
Isabell Langley.....	100 00
Ann V. Wallace.....	100 00
Hannah Taylor.....	100 00
	<hr/>
	\$39,275 00

STATEMENT OF THE CITY TREASURER RELATING
TO SPECIAL FUNDS FOR CARE OF BURIAL
GROUNDS—Continued.

The following amount is invested as follows :

Washington Savings Institution.....	\$5,000 00
City Institution for Savings.....	5,400 00
Lowell Five Cent Savings Bank.	5,025 00
Savings Dept. Traders National Bank.. .	4,050 00
Merrimack River Savings.....	4,500 00
Mechanics Savings Bank	5,100 00
Lowell Institution for Savings.....	5,100 00
Central Savings Bank.....	5,100 00
	<hr/>
	\$39,275 00

Respectfully submitted,

ANDREW G. STILES,

City Treasurer and Collector of Taxes.

INDEX.

Abatement of Taxes.....	20
Account of City Treasurer and Collector of Taxes.....	201
Almshouse Repairs.....	121
Assessors.....	21
Auditor	23
Balance Sheet of Assets and Liabilities Dec. 31, 1904.....	200
Band Concerts.....	180
Bath Rooms at Branch and Fletcher St. Engine Houses.....	123
Bath Room, Closets and New Floor at 4th St. Engine House	123
Bennett Portrait.....	176
Burial Grounds Owned by the City.....	198
Butler Portrait.....	177
By Street, Laying Out, Grading and Extending.....	157
Care of City Hall,	41
Carney Medal Fund.....	174
City Cemeteries	43
City Clerk	24
City Debt.....	171
City Messenger.....	28
City Sealer.....	32
City Treasurer.....	26
City Weigher and Measurer.....	33
Claims for Damages, Injuries, etc	181
Clerk of Common Council.....	30
Clerk of Committees.....	30
Concrete Chapel Cheever and Cottage St. School Basement..	139
Corporation Tax.....	175
Cost of Sewers Laid in 1904.....	192
County Tax.....	175
Due from City on Ordinary City Debt.....	187
Due from City on Water Loan.....	186
Edson Cemetery Annex.....	174
Elections.....	46

Engineering.....	50
Fire Department.....	51
Fire Department Underground Wires	59
Fish Warden.....	33
Fire Alarm Box Cor. Aiken Ave. and Cumberland Road....	181
Fourth of July Observance	179
General Treasury Fund	184
Greenhalge Portrait.....	176
Health Cremator Construction.....	67
Health Office Salaries.	59
Health Yard Labor	63
Health Yard Sundries.....	63
Health Small Pox.....	66
Heating City Hall and Memorial Building.....	68
Huntington Hall.....	70
Improving Sanitary Conditions at Colburn School.....	140
Incidentals.....	74
Inspector of Animals and Provisions.....	33
Inspector of Milk, Vinegar, etc.....	34
Inspector of Wires.....	35
Insurance.....	75
Interest	172
Labor Day.....	180
Law.....	76
Lowell City Hospital and Almshouse.....	85
Library.....	78
Lighting New Lights	80
Liquor License	80
Lighting	78
Lowell Textile School.....	178
Mayor's Department.....	37
Memorial Day G. A. R.	177
Middlesex Village School Bell.....	143
Memorial Day Spanish War Veterans.....	178
Military Aid.....	169
National Bank Tax.....	175
New Chimney at Highland School.....	138
New Boiler Branch St. Engine House.....	120

New Building to Relieve Highland School.....	141
New Boiler at Lyon St. School.....	139
New Boiler at Training School.....	139
Parks.....	80
Parks, Care of Trees.....	84
Parks, Moths.....	85
Police Underground Wires.....	110
Painting City Hall.....	120
Paupers, Out-Door Relief.....	95
Personal Property Owned by the City.....	199
Police.....	105
Pound Keeper.....	32
Public Buildings.....	111
Public Buildings, Valuation of.....	195
Registrars.....	39
Repairing Fuller & Warren Furnaces in Various School.....	140
Repairs of Steamer 3.....	182
Richardson Bill.....	182
Rebates on Rent paid for Huntington Hall.....	182
Resetting and Repairing Boiler at City Hall.....	121
Repairing Palmer St. Engine House.....	119
Report of the Commissioners of Sinking Funds.....	212
Rifle Range.....	71
Sanitaries in Schools etc.....	142
Schools.....	124
School Houses.....	134
Sewer Construction.....	147
Sewer Maintenance.....	143
New Sidewalks.....	156
Sidewalk Repairs.....	156
Sinking Funds.....	173
Soldiers' Relief.....	169
State Aid.....	168
Statement of City Treasurer Relating to Sinking Funds for Care of Public Burial Grounds.....	221
State Supervisors.....	49
State Tax.....	175
State Highway Tax.....	176

Streets.....	149
Supply Department.....	159
Taxes	174 183
Tax Cases.....	176
Tax Rate.....	183
Temporary Loans.....	171
Watering Streets.....	157
Water Works	161
Water Works, Real Estate and Personal Property.....	198

THIRTY - SECOND

ANNUAL REPORT

OF THE

Lowell Water Board

TO THE

City Council of the City of Lowell, Mass.

AND THE

Reports of the Superintendent of Water Works
and of the City Engineer to the
Water Board for 1904



LOWELL, MASS.:
BUTTERFIELD PRINTING COMPANY
1905

WATER DEPARTMENT, 1904

WATER BOARD

ROBERT J. CROWLEY, President.

Term expires second Monday in March, 1907.

MICHAEL J. DOWD.

Term expires second Monday in March, 1905.

AUGUST FELS.

Term expires second Monday in March, 1906.

FRANK L. WEAVER.

Term expires second Monday in March, 1908.

JOHN W. CRAWFORD, Secretary and Clerk.

ROBERT J. THOMAS, Superintendent.

GEORGE BOWERS, City Engineer.

D. B. H. BARTLETT, Engineer.

THOMAS McLOUGHLIN, Engineer.

JOHN B. HENRY, Keeper Reservoir.

THOMAS F. DOYLE, Foreman.

WILLIAM JOYCE, Assistant Foreman.

JOHN E. LOWNY, Meter Inspector.

ALBERT HALLOWELL, Foreman Shop.

A. F. COGER, Hydrants and Gates.

EDWARD WALSH, Services.

OFFICE

GEORGE E. WORTHEN, Service Clerk.

GERTRUDE W. BYAM, Bookkeeper.

JULIA J. RAFTER, Assistant Bookkeeper.

ALICE T. MCCARTHY, Assistant Bookkeeper.

INSPECTORS

ROBERT GARDNER.

FREDERICK A. BARON.

MICHAEL H. McCUE.

GEORGE F. TILTON.

WALTER P. WILEY.

CITY OF LOWELL

IN BOARD OF ALDERMEN.

Feb. 14, 1905.

Received and ordered on file. Sent down for concurrence.

GIRARD P. DADMAN,

City Clerk.

IN COMMON COUNCIL,

Feb, 21, 1905

Received and ordered on file, in concurrence.

FRANK M. DOWLING,

Clerk.

Report of the Water Board

OFFICE OF THE WATER BOARD,
CITY HALL.

Lowell, Mass., January 2, 1905.

*To His Honor the Mayor and the City Council of the
City of Lowell:*

Herewith is presented the thirty-second annual report of the Water Board for the year ending December 31, 1904. The report of the Superintendent herewith, covering the same period, contains the details of the work of the department, and renders an extended report from this Board unnecessary.

The personnel of the Board remained the same, as Mr. Weaver, whose time expired, was re-elected by the City Council ; but at the organization of the Board for the year, Mr. Robert J. Crowley was elected President of the Board, and Mr. Weaver retired from that office after a service of seven years.

The grounds and lands under the control of the Board have received the usual care, the land yields hay enough to supply the department and allow a con-

siderable amount to be sold. Problems are constantly coming up which must be solved and conditions change, but it is the aim of the Board to keep the plant in the highest state of efficiency, and also to look as far into the future as possible.

It has been the policy of the Board to make extensions so far as the means at its disposal would permit where most needed and where the revenue in sight would pay a fair interest on the amount expended.

The financial showing for the year is most satisfactory. Total receipts were \$197,073.64, an increase of 946.44 over previous year, and expenditures were \$181,298.24, a decrease of \$18,934.23. The balance January 1st, 1905, was \$18,835.32, an increase of \$15,775.40 over the year before. Owing to the thirty days limit on the 10 per cent. discount on bills for water, it is essential for the bills to bear the date of issue and to issue at stated times, so the quarterly bills are dated April 1st, July 1st, October 1st, and January 1st, instead of the March, June, September and December accounts as formerly; consequently, what would have been the December Account for 1904 becomes the January Account of 1905 and does not show in this report, but using the total of this account, the charges for metered water increased \$8,905.63 and rated water charges decreased \$2,481.63.

The changing from rates to meters is gradually going on, 277 new meters being set this year while only 178 new services were put in, not all of which were metered.

The final payment of \$5,000.00 was made on the second Driven Well loan of 1894 for \$50,000.00. The

debt of the Department was reduced \$21,600.00, leaving total debt January 1st, 1905, \$1,183,900.00, of which \$1,075,000.00 is bonds and \$87,300.00 is notes.

In February requisition was made through the Supply Department for one hundred tons of 6" pipe, which was purchased from the Lynchburg Foundry Co. for \$23.20 per net ton.

May 17th, requisition was made for three thousand tons of soft coal, either Pocahontas, New River Steam, Loyal Hanna or Old Maryland Co.'s ; the contract was awarded Lowell Coal Co. for New River Steam Coal at \$4.55 per ton at Centralville, and \$4.75 per ton at Boulevard.

On November 17th, a proposition was received from the Power Specialty Co. to furnish a Foster Superheater, to be installed on boiler at Centralville Station, they guaranteeing a saving of fuel of 9 per cent. in the operation of the H. D. Worthington Engine when in good order, on sixty days trial, for the price of \$1050.00 at factory. This proposition was accepted and contract was signed and approved by the Mayor, December 31st.

In accordance with the rules adopted last year governing the use and care of private fire services, it seemed advisable to have a close inspection of the property where there are such services, that the rules shall be strictly adhered to, and Inspector Gardner was appointed to that duty to have all private fire services under supervision, to keep them sealed and learn when used and for what purpose. The city was also divided into four districts and the other four inspectors were detailed one to each district to read meters, make pick-up charges, deliver bills and look after the use of water

in his particular district. At the quarterly readings four other employees are detailed to assist these four inspectors that the meters may be read in the shortest time and the bills issued with as little delay as possible ; and to do this another clerk was installed in the office, Miss Alice T. McCarthy being selected from the civil service list for that position.

There being considerable controversy among water works people, insurance men and mill officials as to the efficiency of fire services when metered, the Superintendent was authorized to install a suitable plant at Centralville Pumping Station for the testing of large meters and other devices for use on fire services, and on October 5th and 6th a public test of these appliances was held at which a large number of prominent water works, insurance and mill officials, together with representatives of a number of meter manufacturers were present, and showed much interest in the device and the results obtained. Superintendent Thomas and Engineer Sullivan received a great deal of praise from those present for their work in this matter.

This Board recommends that the land on the Boulevard under the jurisdiction of the Street Department, on which are the wells of the Lower Boulevard Pumping Station, shall be turned over to the care of the Water Department ; the Water Department owns the land adjoining on which the Pumping Station stands and should have full control of that where the wells are.

It will soon become necessary to install new pumping machinery at Centralville Station, as the economical usefulness of the pumps there is about over. The Morris engine of 1873, the Worthington Duplex of 1876, and

the Worthington, High Duty of 1891 when run are in continual need of repairs and cannot be depended upon for constant work. In the great advance in the manufacture of machinery for the pumping of water, it will be economy for the city to install a new pump in the near future, as well as a measure of safety.

On December 6th, 1904, occurred the death of Inspector Michael H. McCue after a long and painful illness, who had been employed in this Department since 1892. The department thus loses the services of a faithful and trustworthy employee. The vacancy thus created was filled by the election of Mr. John E. Lowney.

The statistics of the Secretary and of the City Engineer in their respective reports will be found of interest.

ROBERT J. CROWLEY.
MICHAEL J. DOWD.
FRANK L. WEAVER.
AUGUST FELS.

FINANCIAL STATEMENT — LOWELL WATER WORKS, 1904.

TABLE
I.

	CHARGES			RECEIPTS BY ACCOUNTS			
	WATER		Total 1904	Receipts	Discounts	Abatements	Due
	Rate	Metered					
Transfer.....	.....	.....	\$38,879 05	\$34,026 19	\$2,732 02	700 11	1,420 73
March.....	.....	.....	1,494 86	1,389 34	.....	15 76	89 76
April.....	.....	\$36,519 80	37,900 28	34,538 11	3,219 42	74 50	68 25
May.....	\$38,675 22	.....	38,675 22	35,097 36	3,125 52	335 92	116 42
June.....	.....	.....	1,749 44	1,623 24	.....	24 65	101 55
July.....	1,540 25	51,375 40	55,079 30	49,991 56	4,583 60	143 51	360 63
August.....	.....	.....	1,076 76	956 71	.....	43 75	76 30
September..	.....	.....	1,561 62	1,004 32	.....	9 25	548 05
October	1,289 78	42,505 58	45,637 74	36,259 04	3,811 81	273 67	5,293 22
November ..	.....	.....	1,013 50	262 62	.....	17 54	733 34
December ..	.....	.....	801 28	80 93	.....	.....	722 35
January '05	paid in advance	.....	.....	1,826 21	245 88	8 14	.....
	\$41,505 25	\$130,400 78	\$171,906 03	\$197,055 63	\$17,718 25	\$1,646 80	\$9,530 60

FINANCIAL STATEMENT — LOWELL WATER WORKS, 1904. — OUTGO.

TABLE II.	Pay Roll and Salaries	Water Works Supplies	Interest and Principle	Refund and Vacancies	General Expenses	Stable Department	Fuel	Land	Total 1904	Total 1903
January.....	\$5,372 52	\$1,797 45	\$ 840 00	\$ 19 43	\$227 45	\$150 84	.....	.....	\$8,407 69	\$20,831 63
February.....	4,590 24	544 76	1,837 50	44 68	43 15	18 54	\$ 495 11	.....	7,573 98	9,838 81
March.....	4,845 09	613 65	200 00	64 98	187 52	76 09	1,153 49	.....	7,140 82	13,270 76
April.....	6,680 04	2,979 60	.....	28 31	133 62	181 05	.....	.....	10,002 62	7,353 08
May.....	5,851 26	2,721 70	19,028 00	545 94	182 48	489 05	884 58	.....	29,702 98	28,357 65
June.....	5,574 09	1,856 58	500 00	97 83	888 61	81 08	.....	\$92 46	9,090 65	16,068 96
July.....	7,201 51	1,757 64	19,300 00	81 26	142 98	479 73	3,724 96	.....	32,688 08	31,888 72
August.....	6,132 72	1,974 73	1,897 50	72 97	68 29	140 46	6,088 55	.....	16,375 22	11,744 47
September.....	6,165 95	1,271 31	60 00	60 92	171 12	105 62	.....	.....	7,834 92	10,123 37
October.....	6,913 55	2,329 12	4,100 00	97 05	256 62	42 52	3,803 37	.....	17,542 20	13,891 17
November.....	5,699 29	2,551 75	19,468 00	32 54	73 45	7 84	.....	.....	27,832 87	30,022 09
December.....	5,891 06	1,127 06	.....	13 75	36 28	38 06	.....	.....	7,106 21	6,841 76
Total.....	\$70,917 32	\$21,525 35	\$67,231 00	\$1,159 63	\$2,411 57	\$1,810 85	\$16,150 06	\$92 46	\$181,298 24	\$200,232 47

FINANCIAL STATEMENT—LOWELL WATER WORKS, 1904.
SUBDIVISION OF "OTHER THAN WATER CHARGES" FROM TABLE I.

TABLE III.	Meters Sold	Expense Setting Meters	Repairs of Meters	New Services	Changed Services	Labor and Material	Shut off Fees	Interest	Total 1904	Total 1903
March	\$ 236 50	\$ 27 76	\$760 25	\$ 24 29	\$14 75	\$431 31	.....	.....	\$1,494 86	\$1,987 43
April	638 25	69 91	207 78	121 33	66 60	276 61	.....	.....	1,380 48	2,559 17
May .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,942 91
June	684 00	97 83	295 63	258 08	47 51	366 39	.....	.....	1,749 44	1,099 65
July	1,046 50	122 42	122 05	278 07	65 48	525 13	\$ 4 00	.....	2,163 65	1,210 21
August	259 75	33 47	18 60	252 58	16 50	495 86	.....	.....	1,076 76	1,171 79
September	650 50	80 62	138 98	261 10	4 38	414 04	12 00	.....	1,561 62	1,141 18
October	711 25	83 31	52 31	228 77	48 90	466 14	.....	\$235 70	1,842 38	1,341 96
November	237 25	60 71	56 53	166 66	20 68	471 67	16 00	.....	1,013 50	1,340 69
December	174 75	23 80	91 71	136 09	.....	374 93	.....	.....	801 28	939 39
Total	\$4,638 75	\$599 83	\$1,743 84	\$1,726 97	\$284 80	\$3,822 08	\$32 00	\$235 70	\$13,083 97	\$14,734 38

FINANCIAL STATEMENT—LOWELL WATER WORKS, 1904.

SUB-DIVISION OF "PAY ROLL AND SALARIES" FROM TABLE II.

TABLE IV.	Salaries	Meter Work	Office and Inspectors	Extension and Construct'n	Engineer- ing	Centralville Pumping Station	Cook Wells Pumping Station	Boulevard Pumping Station	Services	Recharged	General Maintenance	Total 1904	Total 1903
January.....	\$283 32	\$269 39	\$731 12	\$ 81 97	\$271 69	\$717 58	\$ 67 50	\$537 86	.....	.....	\$2,412 09	\$5,372 52	\$5,803 83
February.....	283 36	214 37	681 28	76 50	100 00	673 44	201 63	546 80	.....	.....	1,812 86	4,590 24	4,989 08
March.....	283 32	388 37	681 28	76 50	125 00	673 44	131 82	464 80	\$ 16 98	.....	2,003 58	4,845 09	4,730 31
April.....	283 32	307 28	851 60	573 18	100 00	927 30	100 82	552 25	145 74	.....	2,838 55	6,680 04	5,043 72
May.....	283 36	237 94	681 28	638 25	100 00	680 44	63 00	502 80	139 91	\$ 7 50	2,516 78	5,851 26	6,908 96
June.....	283 32	258 75	681 28	369 19	125 00	680 44	60 75	504 80	168 16	16 88	2,425 52	5,574 09	5,843 77
July.....	283 32	264 50	878 60	665 35	100 00	879 75	133 69	673 75	279 22	39 86	3,003 47	7,201 51	5,957 17
August.....	283 36	217 29	717 28	981 80	100 00	593 09	200 18	620 53	297 64	.....	2,121 55	6,132 72	6,978 92
September....	283 32	243 19	717 28	1,216 80	125 00	698 80	42 63	542 55	257 30	.....	2,039 08	6 165 95	5,477 28
October,	283 32	306 00	896 60	370 96	100 00	893 66	56 00	778 98	327 07	27 38	2,873 58	6,913 55	6,544 97
November....	283 36	227 00	717 28	147 49	100 00	795 51	56 00	548 30	162 58	.....	2,661 77	5,699 29	5,563 27
December, ..	283 32	318 54	895 03	239 92	.....	859 49	70 00	681 04	110 25	34 00	2,399 47	5,891 06	5,534 93
Total.....	\$3,400 00	\$3,252 62	\$9,129 91	\$5,437 91	\$1,346 69	\$9,072 94	\$1,184 02	\$6,954 46	\$1,904 85	\$125 62	\$29,108 30	\$70,917 32	\$60,376 21

TABLE V.

FINANCIAL STATEMENT—LOWELL WATER WORKS,
1904.

SUB-DIVISION "WATER WORKS SUPPLIES," FROM TABLE II.

Pumping Station Supplies, Centralville Station.....	\$1,441 72
Pumping Station Supplies, Cook plant.....	393 76
Pumping Station Supplies, Boulevard.....	704 98
Cast iron pipe and specials.....	3,577 98
Hydrants and gates and gate boxes.....	2,814 21
Service pipe and boxes.....	2,506 26
Meters.....	4,169 42
Machinery and tools.....	106 98
Brass foundry.....	52 68
Miscellaneous.....	3,428 57
New office building.....	2,328 79
	<hr/>
	\$21,525 35

TABLE VI.

FINANCIAL STATEMENT—LOWELL WATER WORKS,
1904.

DETAIL OF "PRINCIPLE AND INTEREST" FROM TABLE II.

	Amount of Debt Jan. 1, 1904.	Rate.	Interest Paid 1904.	Paid on Notes 1904.	Amount of Debt Jan. 1, 1905.
Water loan bonds	\$1,000,000 00	4	.....	.....	\$1,000,000 00
57 Coupons, No. 26...	.....	.....	\$ 1,140 00	.....	.....
994 Coupons, No. 27	.....	.....	19,880 00	.....	.....
874 Coupons, No. 28	.....	.....	17,480 00	.....	.....
High Service bonds...	75,000 00	4	.....	.....	75,000 00
15 Coupons, No. 45...	.....	.....	1,500 00	.....	.....
13 Coupons, No. 46...	.....	.....	1,300 00	.....	.....
NOTES.	5,000 00	3½	175 00	5,000 00	.....
	16,400 00	4	656 00	4,100 00	12,300 00
	35,000 00	4	1,400 00	5,000 00	30,000 00
	52,500 00	4	2,100 00	7,500 00	45,000 00
	\$1,183,900 00		\$45,631 00	\$21,600 00	\$1,162,300 00

TABLE VII.

FINANCIAL STATEMENT—LOWELL WATER WORKS,
1904.

MAINTENANCE AND CONSTRUCTION ACCOUNT.

MAINTENANCE.

Paid for labor:

Salary of Superintendent.	\$ 1,800 00
Salary of Water Board.....	1,600 00
Office and Inspectors.....	9,129 91
Pumping stations.....	17,211 42
Meter Work.....	3,252 62
Engineering	1,346 69
General maintenance.....	29,173 96

Paid for material:

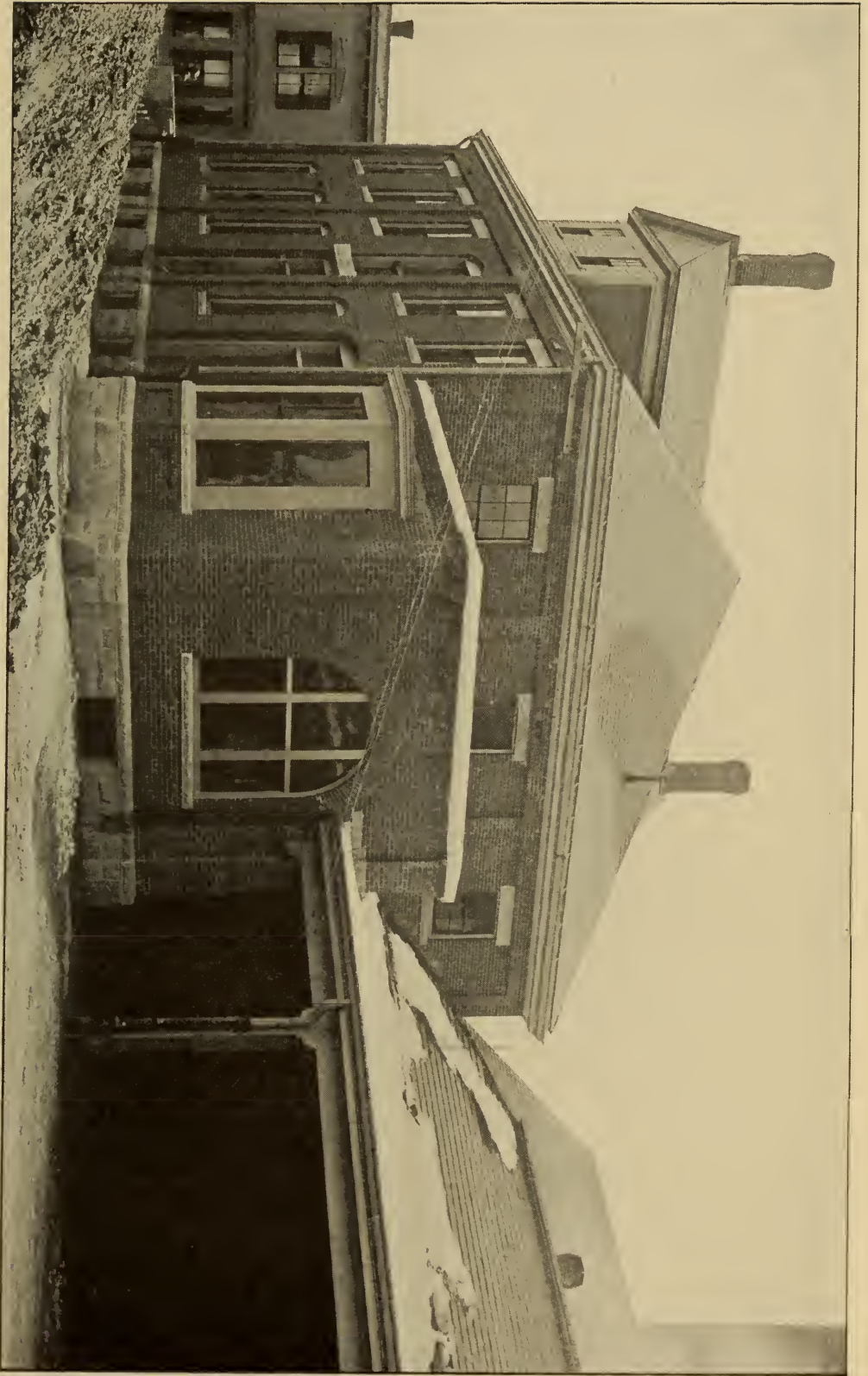
Output as per stock book.....	1,930 15
General expense	2,411 57
Stable	1,810 85
Pumping station supplies	2,540 46
Fuel.....	16,150 06
Interest	45,631 00

\$133,988 69

CONSTRUCTION.

Paid for labor.....	\$ 7,277 10
Land	92 46
New office building	2,328 79
Output as per stock book.....	6,465 70
Payment on loans.....	21,600 00

\$37,764 05



OFFICE AND SHOP, HAMPSHIRE STREET.

Superintendent's Report

LOWELL, MASS., January 2, 1905.

To the Lowell Water Board:

GENTLEMEN: In accordance with the provisions of the City Ordinances, I have the honor of rendering to you the Annual Report of the Superintendent of Water Works for the year ending December 31, 1904.

In the report of 1903 mention was made of the favorable showing in the daily consumption of water for that year, it being the lowest of any year since 1889. This year I take pleasure in calling attention to the fact that the total expenditures for 1904 were less than in any year since 1887, with the single exception of the year 1891, when it was \$180,250.56, against \$181,298.94 the past year. In 1891, however, the city water was pumped directly from the Merrimack River into the reservoir, while now it is first pumped from the wells, then re-pumped into the reservoir, thereby doubling the pumping expenses. This shrinkage in the annual expenditures indicates, among other things, that the department is recovering from the burden of indebtedness consequent upon the construction of the driven well system. Re-

ferring to 1891 recalls an impressive and significant fact; that is, about that time, 1890-91, Lowell's typhoid fever death rate was exceeded by only two or three cities in the world, and its mortality record was 24.95. During the last year the city's typhoid fever death rate is one of the lowest in the world, while the rate of mortality from all causes for 1904 is only 16.62, the lowest since 1850. That this great improvement in the health of the people of Lowell is due to a considerable extent to the city's magnificent water supply, goes without question. Moreover, since 1891, the water works under the control of your honorable board, has grown and prospered so that it is now a more valuable asset than the rest of the city's property combined.

During the past year an improvement has been made in the property of the department by the erection of a new office building, thus making available for shop purposes a much needed space in the machine shop occupied by the old office. As authorized by your honorable body, this building is of brick one story high, with granite coping and trimmings. It is especially designed for office work. The inside walls are finished in quartered oak, part panelled with panelled metallic ceiling. The office proper has a floor space of 15' x 20', and is connected by an iron stairway with a basement which is intended to be used for storing books, records, etc. It is situated on the northwest corner of the machine shop, commanding a good view of the shop, yard, stable and storehouse. By means of push buttons and electric bells those employed in the engine room, blacksmith shop, carpenter shop, machine shop, stable and paint shop, can be called to the office when needed.

PLANT FOR TESTING LARGE METERS.

For the purpose of testing large meters, such as 4", 6", etc., or other devices for measuring water, a testing plant has been set up in the engine room of the Central-ville pumping station. This plant consists of an 8" pipe laid in the basement of the pumping station, from the high service main to the engine room floor, where it is reduced 6" pipe and extended along on wooden horses to a point where the water after passing through the meters can be discharged into the pump well. The 6" pipe line in the engine room where the meters are set for testing, is equipped with pizometer rings connected to a U gauge and mercury column, with Freeman nozzles attached for measuring the discharge. This plant was set up in March, since which time 7-6", 1-10", 1-12" meters and three devices were tested. All meters to be used for fire service can be tested at this plant, both for registration and for loss of head. The testing has been conducted by W. F. Sullivan, of the city engineer's force, in a most thorough and comprehensive manner. Many of the tests made are new, and considerable data as to the practical working of these large meters has been obtained that was heretofore unknown. Cards and diagrams have been made by engineer Sullivan, showing the operation of every meter and device tested, with varying volumes of discharge, loss of head and percentage of registration.

MAIN PIPES, EXTENSIONS, ETC.

There is now a total of 133.68 miles of cast iron main pipe in use, a gain of 5706 feet during the year. Besides the extension of mains, change in street lines

and grades made it necessary to lower 430 feet of 6" pipe on By street, 350 feet of 6" pipe on Fruit street, and 225 feet of 8" pipe had to be re-located on Riverside street, on account of sewer work. In connection with the extensions of main pipe laid, 15 stop gates were set, and for the better control of the mains already in use, 19 additional gates were inserted in the mains. For this purpose seven of the 12" and two of the 6" valves taken out of the discontinued connections between the Locks and Canals Corporation System and the city pipes were used, 105 gates were repaired, and twenty-five gate boxes were renewed.

PUBLIC FIRE SERVICE HYDRANTS.

Of the thirteen four-way hydrants which the Board voted to set adjacent to the large corporations, two were set in 1903 and the remaining eleven early in the past year. Three other ordinary hydrants were also added, making a total of 1138 public fire hydrants now in service. Eight flush hydrants were replaced by post hydrants, and five post hydrants broken or damaged beyond repair were replaced by new post hydrants; also 288 hydrants were cleaned and repaired. The four-way hydrants set near the corporation were connected to large mains (laid especially for fire service) which had to be tapped and a gate used for every hydrant; that fact, together with the increased cost of the hydrants, accounts for an excess of over a thousand dollars for hydrants the past year compared with the previous year.

As you may notice, the number of hydrants required is large, almost one-third of the whole number; that fact is due principally to their unwarranted use for

various purposes. This should not be; it is a bad practice and may some day be the cause of serious results. The City Ordinances distinctly forbid the opening of hydrants, excepting for fire, without permission of the Water Board. Sometimes hydrants are found in a totally disabled condition after being used by some unauthorized person; just such a circumstance might be the means of allowing a fire to gain great headway and ultimately develop into a conflagration. Following the lessons taught by the disastrous experiences of Baltimore, Patterson, Lynn, and other places, every care should be exercised in maintaining the fire hydrants and fire service of the city to the highest possible point of efficiency.

HYDRANTS, JANUARY 1st, 1905

KIND		2 Noz.	3 Noz.	4 Noz.	Total
Boston Machine			170		170
Chapman		3	104	50	157
Coffin			1		1
Corey			7		7
Eddy			32	1	33
Flush	426				426
Glanmorgan			1		1
Holyoke				1	1
Kennedy			2		2
Ludlow		3	264	14	281
Michigan			43		43
O'Brien			1		1
Perkins				1	1
Walker			3		3
Lowrey	11				11
Totals	437	6	628	67	1138

PRIVATE FIRE SERVICE AND HYDRANTS.

Two fire services were laid during the year, as follows: 4" pipe for the Young Women's Christian Association, John street and John avenue; U. S. Spool and Bobbin Co., 4" on Perry street. Fifteen 12" and two 8" connections with the Locks and Canals System for corporation fire service were cut off and gates removed. There are now in all 124 private fire services supplying 74 private fire hydrants besides sprinklers and stand pipes, all of which were sealed during the year by Inspector Gardner, who was especially detailed for the inspection of fire services. His duties also include the reading of meters on premises provided with this extra protection, and to observe and report any failure to comply with the rules of the department governing private fire services. So far, his work has amply justified his appointment.

PRIVATE HYDRANTS JANUARY 1st, 1905.

KIND.	1 Noz.	2 Noz.	3 Noz.	4 Noz.	Total
Boston Machine		1	8		9
Chapman	1	4	1	5	11
Coffin			1		1
Flush 3					3
Kenney		1			1
Ludlow		18	14	10	42
Michigan			3		3
Perkins		3	1		4
Totals 3	1	27	28	15	74

SERVICES.

The number of house services or house connections have increased one hundred and seventy-eight (178) during the year, against one hundred and fifty five (155) the previous year and forty-three old services of various kinds of pipe were replaced with new pipe, principally Tin Lined Iron. Only thirty-five services were changed the previous year. An unusual number of services were also repaired owing to the severe cold spell last January when several were frozen and burst. Regrading of streets have made necessary the lowering of many services. Owing to the extra work as above, the expenses for service pipe for the year were \$2,725.37 an increase over the year previous of \$1,468.61. In the line of service maintenance 367 curb boxes were set and 10 leaks on service pipes repaired.

NEW SERVICES — 1904.

160	$\frac{3}{4}$ " iron tin lined pipe	6,142 feet
7	1" iron tin lined pipe	116 "
2	1 $\frac{1}{2}$ " iron tin lined pipe	70 "
2	2" iron pipe	88 "
3	4" iron pipe	112 "
3	$\frac{5}{8}$ " lead pipe	79 "
1	$\frac{3}{4}$ " lead pipe	31 "
<hr/>		<hr/>
178		6,638 "
Amount previously laid		438,973 feet
Total now laid		445,611 "
Total services laid		12,058
Total cut off at main		832
Total reconnected		61
Total now in use		11,287

SERVICES CHANGED — 1904.

No.	KIND.	CHANGED TO						Total Feet
		Tin Lined $\frac{3}{4}$ "	Tin Lined 1"	Tin Lined $1\frac{1}{2}$ "	Iron $\frac{3}{4}$ "	Iron 1"	Iron $1\frac{1}{2}$ "	
23	$\frac{3}{4}$ " iron . .	511						511
3	$\frac{3}{4}$ " iron . .		63					63
1	$\frac{3}{4}$ " iron . .			14				14
1	$\frac{3}{4}$ " iron . .				6			6
3	1" iron . .	64						64
1	1" iron . .		21					21
1	1" iron . .			23				23
1	$1\frac{1}{2}$ " iron . .		95					95
1	$1\frac{1}{2}$ " iron . .						7	7
1	$\frac{3}{4}$ " T. L. iron .			18				18
1	1" L. L. iron .					5		5
2	$\frac{5}{8}$ " lead . .	41						41
1	$\frac{5}{8}$ " lead . .		49					49
2	$\frac{3}{4}$ " lead . .		48					48
1	$\frac{3}{4}$ " lead . .			67				67
43	Totals .	616	276	122	6	5	7	1032

The total number of meters in use at the close of the year was 7513, representing 66% of the total number of services in use. During the last four years there has been a net gain of 1927 meters in use in the department. One of the results of this rapid increase in meters has been a slight reduction in the total receipts, but to offset that there has been also a material decrease in the daily consumption of water, which in turn has made possible the reduction in the total expenses.

The large number of meters frozen and burst during the winter of 1903 and 1904 (particularly last January) not only in Lowell, but in many other cities in the country, has had the effect of bringing to the attention of Water Departments the advantages of setting meters in boxes located in the sidewalk. Their liability to freeze when set in the ground with an air tight box is reduced to a minimum, while their accessibility to the Inspector for reading makes it possible to read them faster than the present method of going into cellars for that purpose with all that entails, such as calling and finding the family away and the house and cellar locked, or possibly a pile of wood or coal placed over the meter, making a second call necessary. Another advantage of out side meters is that leaks in the service pipe beyond the sidewalk are all registered. During the year several meters were set in the ground as above described.

PRIVATE METERS RUNNING JANUARY 1, 1905

SIZES.	$\frac{3}{8}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{2}$ "	2"	Total
Columbia . . .		9					9
Crown	1	29	23	2	1		56
Desper			3	1			4
Duplex		1					1
Empire		6					6
Frost		2	1				3
Hersey		16	1				17
King		1					1
Lambert		12					12
Nash		14	2			1	17
Thomson			1				1
Trident			6				6
Worthington . .				1		3	4
Total	1	90	37	4	1	4	137

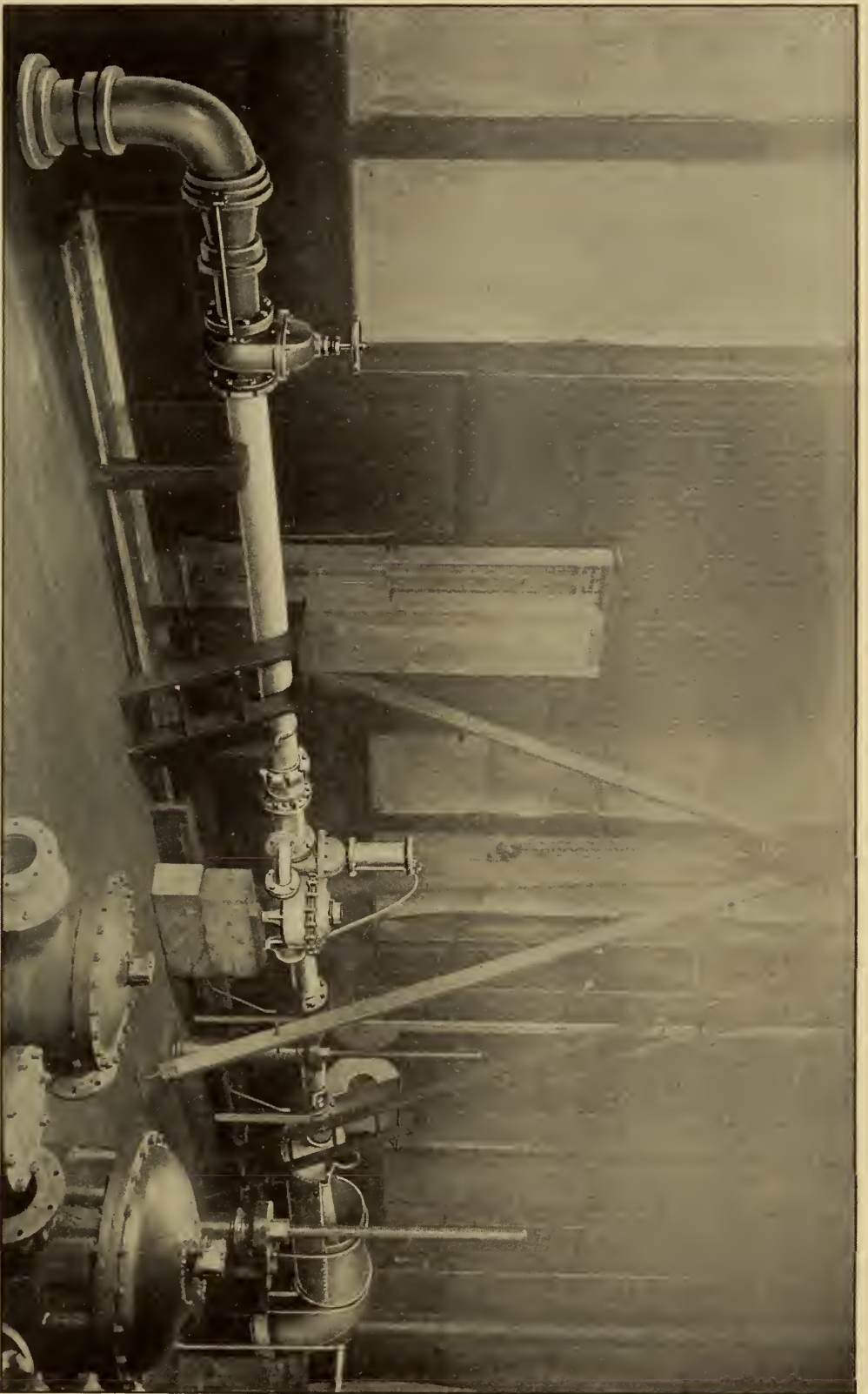
METERS RUNNING JANUARY 1st, 1905.

SIZE.	5/8"	3/4"	1"	1 1/2"	2"	3"	4"	6"	Total
Columbia .	108	4							112
Crown .	2760	1582	302	19	20	5	5	2	4695
Desper .	19	6	5						30
Duplex .	1	1	4						6
Empire .	231	40	4						275
Frost .		1							1
Gem .					7		4	2	13
Hersey .	485	102	8	5			1		601
King .	6								6
Lambert .	538	72							610
Metropolitan		1							1
Nash .	149	73	45		1				268
Niagara .	1	1							2
Thomson .	5	19	2						26
Trident .	503	30	1						534
Union .	28	7		1					36
Worthington	112	23	52	66	35	6	3		297
Total .	4946	1962	423	91	63	11	13	4	7513

New meters set.....	277
Meters out of repairs.....	900
Meters repaired in cellars.....	215
Meters reset.....	795
Meters condemned	27
Meters condemned replaced with new	28
Meters frozen and burst.....	367
Meters discontinued	39
Private meters set.....	16

PUMPING STATIONS AND PUMPING.

Taking the work of all the Pumping Stations together, there was a gross pumpage for the year of 4,108,816,873 gallons. Deducting the quantity pumped at Boulevard Lower Pumping Station, 1,158,489,736 gallons and the Boulevard Upper Station, 874,664,382 gallons which had to be re-pumped, and after allowing a certain amount for condensation at Centralville Pumping Station, the net pumpage or the total quantity of water pumped for distribution was 2,007,487,767 gallons, of which 63,947,712 gallons was pumped at the No. 2 or Cook Wells Pumping Station from the Cook and Washington Wells. This Station was started and ran five days not because it became necessary, but more for the purpose of trying it out and making sure that everything was all right in case of an emergency, and although the boilers and pipes were empty and some of the pipes disconnected, yet within six hours after receiving notice the Engineer had the Station in successful operation. Part of the main steam line at this Station which when first put up in 1893 was only second hand C. I. pipe, leaked so badly that it was thought best to replace it with new W. I. 6" pipe. As no steam is kept in the boilers when not running, care must be used in draining boilers, pipes, etc. to prevent freezing. For this reason, also, the feed water heater was changed from a horizontal to vertical position so that it could be more perfectly drained. Should occasion arise, this Station could be started in a few hours.



APPARATUS FOR TESTING LARGE METERS AND FIRE SERVICE DEVICES.

THE BOULEVARD PUMPING STATIONS.

The Boulevard Upper Pumping Station was run considerable the past year because it required about 3,000 lbs. less coal to pump 5,000,000 gallons than did the Lower Pumping Station; no repairs of any account were made at the Upper Station, but while it was running the pumps and boilers at the Lower Station were overhauled and put in order.

CENTRALVILLE PUMPING STATION.

Most of the pumping at this Station was done by the Morris Engine. It ran very smoothly and proved comparatively economical in the use of fuel, for which reason it would have been run more, but it has a peculiar way of breaking down in some vital part which requires several days or weeks to repair; for instance, it was out of commission until February 27th, awaiting a new filling-in piece belonging between the high-pressure steam cylinder and the condenser, which was broken the year before. Later in the year the crank pin was noticed working loose and examination showed it to be an imperfect fit and a new one had to be forged and forced in. Since then the Engine has run very well and with only slight repairs.

The High Duty Worthington Pump which has been the main reliance of this Pumping Station for the last

ten years required considerable attention during the year. It showed signs of weakening the year before and called for extensive repairs but the past year after fitting it with a new foot valve, supposing that would prove all that was necessary to make it run all right again, serious trouble was encountered which, upon investigation, proved to be due to a crack in Low Pressure Steam Cylinder about seven inches long and extending through the jacket. White metal was melted down and run into the crack from the inside of the cylinder and for the purpose of stopping leakage through it; but the live steam pressure in the jackets loosened the metal patch so that the jacket pressure had cut out altogether; of course that reduced the efficiency of the engine materially. However, the Superheater contracted for by Your Honorable Board may prove an offset to the loss of the jacket steam and enable the engine to do as well as ever or better, as the Contractors furnishing the Superheater guarantee.

Occasionally during the year necessity compelled the running of the Low Duty Worthington Pump. It takes, however, so much coal to pump the daily supply of water with it that it is like wasting money to have to do so. For illustration, the Morris Engine pumping $5\frac{1}{2}$ million gallons consumes 13,000 lbs. while 17,000 lbs. is burned when the Low Duty Worthington is running, doing the same work.

Taking it as a whole, the Department is in good condition and it stands first class, particularly as to the quality and quantity of its supply. It must be admitted, however, that its pumping outfit is lamentably weak and inefficient and though the financial showing for the

Department the past year is as good as far as the expenditures are concerned, a still further saving could be effected if the pumping equipment of the Department was brought up-to-date. A new pump to take the place of the Low Duty Worthington ought to be considered as soon as possible.

RESERVOIRS.

As customary, every summer since the introduction of Driven Well water, in order to avoid trouble from Algae, the High Service Reservoir was shut off and the water for that system pumped directly into the mains. No such measures have been found necessary for the last three summers regarding the Low Service Reservoir, although during the past summer a large abundance of green growth, presumably Algae, was plainly observable on the walls of the reservoir, much of which was removed by hand; yet it had no apparant effect on the odor or taste of the water drawn from the reservoir.

The only outlay on account of the reservoir was the rebuilding of a part of the fence on Christian Street.

MISCELLANEOUS.

Two new drinking fountains for people were set during the year; one at Hosford Square and one in Pawtucketville on Mammoth Road near the corner of

Riverside Street. A combination drinking fountain made of 30" cast iron pipe was set on Broadway opposite the Mann School. All the fountains were cleaned twenty times, and 151 complaints regarding fountains were attended to. The streets mains were blown off as usual during the year.

At the parks along the Conduit in Pawtucketville and at the Pumping Station and Reservoir grounds flowers were set out, making them look more beautiful than ever before.

On January 1st of the past year a break occurred in the 30" force main on Sixth Street near the corner of Read Street. Outside the injury done to the surface of the street by the escaping water, no other damage was done. In order to repair it, 7 feet of new 30" pipe had to be used.

An examination of the Conduit revealed a bad spot in the brick work under Third Avenue. This was repaired and the Conduit, Tunnel and Filter Gallery thoroughly cleaned. The tunnel was flushed with hose connected to near-by hydrants.

Hay of good quality to the extent of about 40 tons was cut off the lands of the Department at the Reservoir and on the Boulevard. A considerable quantity of the previous year's crop being left, over twelve tons of it was sold, realizing a sum of money sufficient to meet the expense incurred in cutting and saving the whole crop.

Two new horses were purchased during the year and two old ones sold. Twenty-four sewers were flushed during the year, and seven flush hydrant boxes were renewed.

CONCLUSION.

It affords me satisfaction to be able to acknowledge my sincere thanks to President Crowley and the members of the Board for their kind and considerate treatment during the year.

Respectfully submitted,

ROBERT J. THOMAS,
Superintendent.

LOW SERVICE—WATER PIPES LAID IN 1904.

Streets.	Between What Streets.	Length in Feet.					Total.
		4-in.	6-in.	8-in.	10-in.		
Aiken	Ford and Cheever		201				201.0
Beaulieu	Northerly from West Sixth		393				393.0
Cashin	Southerly from Princeton... ..		505				505.0
City Ave.	Easterly from City Hall Ave.	77					77.0
City Stables	Cart sprinkler standpipe.	36					36.0
Corey	Southerly from Princeton... ..		144				144.0
Dana	Northerly from Ludlam		319				319.0
Dartmouth Ave.	Westerly to Hildreth		1080				1080.0
Eaton	Extended southwesterly.. ..		72				72.0
Grace	Northerly to Liberty.		273				273.0
Inland	Easterly from Blodgett		146				146.0
John Ave.	Westerly from John	46					46.0
John Ave.	Fire Service to Y. W. C. A. building	10					10.0
Lipton	Southerly to Forest.		200				200.0
Middlesex	On street car sprinkler stand- pipe west of Baldwin	11					11.0
Moody	Extended northerly			639	454		1093.0
Olney	Westerly from Gorham		99				99.0
Orchard	Extended northerly		84				84.0
Perry	Fire service to U. S. Spool and Bobbin Co.	79					79.0
Plymouth	Extended southerly		130				130.0
Porter	Extended easterly.		48				48.0
Third Ave.	Westerly from Crawford		144				144.0
West	Northerly from Blossom		72				72.0
West Sixth	Westerly to Beaulieu		154				154.0
West Sixth	Southerly towards Ennell		48				48.0
	Hydrants		205				205.0
	Laid in 1903	259	4317	639	454		5669.0

HIGH SERVICE—WATER PIPES LAID IN 1904.

Streets	Between what Streets	Length in Feet					Total
		4-in.	6-in.	8-in.	10-in.	12-in.	
Whitman.....	Easterly from Fairmount.....	.....	37.5	.....	.....	.....	37.5
	Laid in 1904 .....	.....	37.5	.....	.....	.....	37.5
	High Service laid previous to 1904 .....	.....	.....	.....	.....	.....	37884.5
	Total High Service to Jan. 1, 1905 .....	.....	.....	.....	.....	.....	37922.0

Brought forward	5,669.0 feet
Low Service laid previous to 1904	662,228.0 feet
<hr/>	
Total Low Service to January 1, 1905	667,897.0 feet
Total High Service to January 1, 1905	37,922.0 feet
<hr/>	
Total High and Low Service to January 1, 1905..	705,819.0 feet
Total in miles, 133.68	

CHANGES

- By street, 430 ft. 6 in. pipe relocated.
- Fruit street, 350 ft. 6 in. pipe relocated.
- Riverside street, 225 ft. 8 in. pipe relocated.

Corporation fire service connections and gates taken out during 1904.

- 12 in. connection to Appleton Co., Jackson street.
- 12 in. connection to Bigelow Carpet Co., Market street.
- 12 in. connection to Boott Cotton Mills, Amory street.
- 12 in. connection to Hamilton Mfg. Co., Jackson street.
- 12 in. connection to Lawrence Mfg. Co., Hall street.
- 12 in. connection to Lowell Machine Shop, Dutton street.
- 12 in. connection to Lowell Machine Shop, Jackson street.
- 12 in. connection to Mass. Cotton Mills, Canal street.
- 12 in. connection to Merrimack Mfg. Co., foot of Dutton street.
- 12 in. connection to Merrimack Mfg. Co., foot of Dutton street.
- 8 in. connection to Middlesex Co., Warren street.
- 8 in. connection to Middlesex Co., Warren street.
- 12 in. connection to Prescott Mills, Merrimack square.
- 12 in. connection to Tremont and Suffolk Mills, Tremont street.
- 12 in. connection to Tremont and Suffolk Mills, Tremont and Hall.
- 12 in. connection to Tremont and Suffolk Mills, Hall and Suffolk.
- 12 in. connection to Tremont and Suffolk Mills, Cabot street.

LOW SERVICE—LIST OF STOP GATES SET DURING THE YEAR 1904.

STREETS	LOCATION						
		4-in.	6-in.	8-in.	10-in.	12-in.	16-in.
Aiken	19.2 ft. west of east line Ford street, 5.3 ft. north of south line Aiken street .....	..	1	..	..	..	..
Aiken	51.4 ft. east of west line Aiken street canal bridge, 4.7 ft. north of south line canal bridge.....	..	1	..	..	..	..
Amory....	On hydrant connection near entrance to Mass. Cotton Mills .....	..	1	..	..	..	..
Amory.....	On hydrant connection 18.2 ft. north of south line Amory street, 9 ft. east of east line John street.....	..	1	..	..	..	..
Amory.....	On hydrant connection 18 ft. north of south line Amory street 7½ ft. west of west line John street .....	..	1	..	..	..	..
Beaulieu..	12 ft. east of west line Beaulieu on north line West Sixth street .....	..	1	..	..	..	..
*By.....	Relocation 11½ ft. south of north line By street, on east line Hildreth street.....	..	1	..	..	..	..
Canal ..	On hydrant connection near entrance to Mass. Cotton Mills ..	..	1	..	..	..	..
*Chelmsford...	31.3 ft. east of west line Chelmsford street, on north line Daly street .....	..	..	..	..	1	..
City Stables ...	On supply to sprinkler cart standpipe.....	1	..	..	..	..	..
Dana	12 ft. east of west line Dana street, on north line Ludlam street .....	..	1	..	..	..	..
Dartmouth Ave	12 ft. north of south line Hildreth street, 14.3 ft. west of east line Hildreth street.....	..	1	..	..	..	..
Dutton.....	On hydrant connection near entrance to Lowell Machine Shop.....	..	1	..	..	..	..
Dutton.....	41.4 ft. south of S.-E. Cor. House No. 675, on west line Wamesit court .....	..	..	..	..	1	..
Fort Hill Park	55½ ft. south of north line Rogers street 9½ ft. west of stone fender .....	..	1	..	..	..	..
French	On hydrant connection 8½ ft. east of west line Kirk street ..	..	1	..	..	..	..
Gates.....	14.2 ft. west of east line Gates street on north line Westford street.....	..	1	..	..	..	..
Grace.....	12 ft. east of west line Grace street on south line Liberty street .....	..	1	..	..	..	..
Grand	15.4 ft. west of east line Grand street, on north line Westford street.....	..	1	..	..	..	..
Grand	16.5 ft. south of north line Grand street, 0.3 ft. east of west line Chelmsford street.....	..	1	..	..	..	..
Howard.	23.2 ft. north of south line Howard street, on west line Chelmsford street .....	..	..	..	..	1	..

* 6 in. gate By street at Hildreth relocation. 12 in. gate Middlesex near Gorham relocation. 12 in. gate taken out Chelmsford street at Howard street.

LOW SERVICE—LIST OF STOP GATES SET DURING THE YEAR 1904—Continued.

STREETS	LOCATION	4-in.	6-in.	8-in.	10-in.	12-in.	16-in.
Hurd	On hydrant connection, southerly side, near George street	..	1	..	..	..	..
Jackson	On hydrant connection, west of entrance to Lowell Machine Shop .....	..	1	..	..	..	..
John Ave.	6 ft. north of south line John avenue, 17.7 ft. east of west line John street	1	..	..	..	..	..
Lawrence	25.7 ft. east of west line Lawrence street, on south line Ames street .....	..	..	..	1	..	..
Lawrence	14 ft. west of east line Lawrence street, 41 8 ft. south of south line Sherman street .....	..	..	..	1	..	..
Lipton	12 ft. east of west line Lipton street, 11.7 ft. south of north line Forrest street .....	..	1	..	..	..	..
London	20.1 ft. south of north line London, on east line Main street .....	..	1	..	..	..	..
Market	21 ft. west of west line Palmer street, 18.8 ft. south of north line Market street .....	..	..	..	..	1	..
Merrimack	33 ft. south of north line Merrimack street, 13 ft. east of west line Hanover street .....	..	..	..	1	..	..
Merrimack	29 7 ft. south of north line Merrimack street, 3 ft. east of east line Old City Hall	1	..	..	..	..	..
Merrimack Sq.	On hydrant connection, northerly side, opp. Prescott Mills	..	1	..	..	..	..
Merrimack Sq .	On hydrant connection, northerly side, in front Runels Building .....	..	1	..	..	..	..
Middlesex	On street car sprinkler standpipe, 23.3 ft. north of south line Middlesex, 14 8 ft. west of west line Baldwin	1	..	..	..	..	..
*Middlesex ...	(Relocation) 17.7 ft. north of south line Middlesex, 33 4 ft. west of west line Gorham street .....	..	..	..	1	..	..
Middlesex	16.3 ft. south of north line Middlesex, 0.9 ft. west of west line School street .....	..	1	..	..	..	..
Moody	13 ft. north of south line Moody street, on west line Seventh ave. ....	..	1	..	..	..	..
Olney	12 ft. south of north line Olney street, 15.7 ft. east of west line Gorham street .....	..	1	..	..	..	..
Perry	On fire service to U. S. Spool and Bobbin Co., 10.9 ft. east of west line Perry st., 53 ft. north of north line building	1	..	..	..	..	..
Riverside	25.7 ft. south of north line Riverside street, 1.5 ft. east of east line White street .....	..	1	..	..	..	..
Warren	On hydrant connection, southerly side, opp. Middlesex Co.'s office .....	..	1	..	..	..	..
West	10 ft. west of east line West st., on north line Blossom st.	..	1	..	..	..	..
Worthen	On hydrant connection, easterly side opp. Merrimack Print Works .....	..	1	..	..	..	..

* 6 in. gate By street at Hildreth relocation. 12 in. gate Middlesex near Gorham relocation. 12 in. gate taken out Chelmsford street at Howard street.

HIGH SERVICE—LIST OF STOP GATES SET DURING THE YEAR 1904.

STREETS	LOCATION	4-in.	6-in.	8-in.	10-in.	12-in.	16-in.
Whitman	13 ft. south of north line Whitman street, 17.7 ft. east of west line Fairmount street .....	..	1	..	..	..	..

LOW SERVICE—LIST OF HYDRANTS SET DURING THE YEAR, 1904.

STREETS	LOCATION
Amory	At entrance to Mass. Cotton Mills.
Amory	Southerly side, east of John street.
Armory	Southerly side, west of John street.
*Canal	At entrance to Mass. Cotton Mills.
Dutton	Easterly side, just north of entrance to Lowell Machine Shop.
French	Opposite Kirk street near Merrimack Co.'s storehouse.
Hurd	Southerly side, near George street.
Jackson	Northerly side, west of entrance to Lowell Machine Shop.
Merrimack Sq .	Northerly side, opp. Prescott Mills.
Merrimack Sq .	Northerly side, in front Runels building.
Plymouth.....	Easterly side, in front No. 25.
Warren.....	Southerly side, opp. Middlesex Co.'s office.
Worthen.....	Easterly side, opp. Merrimack Print Works.

* Old flush hydrant discontinued.

CAST IRON PIPE AND SPECIALS IN STOCK DEC. 31, 1904.

Size in inches	4"	6"	8"	10"	12"	16"	20"	24"	30"
Lengths of pipe	2	244	133	1	121	9	11	17	2
Sleeves	1	3	4	2	3	7	1	5	1
Caps.....		4	1	.....	2	2	1	1	.....
Plugs.....	1	15	8	4	2	2	1	.....	.....
$\frac{1}{4}$ Bends.....	.....	1	3	1	6	5	.....	.....	.....
$\frac{1}{8}$ Bends.....	4	7	12	.....	2	8	6	4	.....
$\frac{1}{16}$ Bends.....	4	2	6	.....	5	9	5	.....	2
Offsets.....	3	2	8	1	.....	.....	.....	.....	.....
Gates.....	.....	4	2	.....	8	.....	.....	.....	.....

CAST IRON PIPE IN PIECES.

64 feet 4" pipe.	47 feet 6" pipe.	50 feet 8" pipe.
38 feet 10" pipe.	30 feet 12" pipe.	13 feet 16" pipe.
5 feet 30" pipe.		

HYDRANTS, COVERS, ETC.

1 Lowrey hydrant, 3 Walker hydrants, 3 Corey hydrants, 5 Flush hydrants, 1 frame and cover for Lowrey hydrant, 15 Flush hydrant frames, 6 Stone gate covers, 4 frames and covers for Meter boxes, 25 Iron gate boxes, 15 frames and covers for gate boxes, 1 30" Manhole, 23 bottoms for gate boxes 4 feet long; 9 5 feet long; 6 6 feet long, 7 1½" Sidewalk boxes, 26 1" Sidewalk boxes.

Sizes in inches	4 x 4 6 x 2 6 x 4 6 x 6 8 x 4 8 x 6 8 x 8 10 x 4 10 x 6 10 x 8 10 x 10 12 x 4 12 x 6 12 x 8 12 x 10 12 x 12 16 x 4 16 x 6 16 x 8 16 x 10 16 x 12 16 x 16 20 x 6 20 x 8 20 x 10 20 x 12 24 x 20
Branches	3 7 6 3 2 17 6 3 6 9 1 2 11 9 2 5 4 3 4 5 1 2
Crosses	6 9 6 6 6 20 3 1 8 10 2 8 10 9 8 9 6 12 7 7
Reducers	9 4 2 3 2 4 8 4 3 3 1 3 4 1
Smith Gates and Sleeves	1 1 2 1 2 3 2 1 5 2 1 2

Report of the City Engineer

OFFICE OF CITY ENGINEER.

LOWELL, MASS., January 1, 1905.

To the Lowell Water Board:

GENTLEMEN:—I have the honor to submit the Thirty-second Annual Report, for the year ending December 31, 1904.

PUMPAGE.

Total net pumpage for 1904.....	2,007,487,767 Gallons.
Total net pumpage for 1903	1,923,370,860 Gallons.
An increase in 1904 of.....	84,116,907 Gallons.

CONSUMPTION.

Consumption for 1904	2,007,628,297 Gallons.
Consumption for 1903	1,922,390,231 Gallons.
An increase in 1904 of.....	85,238,048 Gallons.

The maximum pumpage for any one day was on Wednesday, February 17, viz:—

At West Sixth Street station.....	6,573,750 Gallons.
At Cook Wells station ..	2,971,904 Gallons.
Total	9,545,654 Gallons.

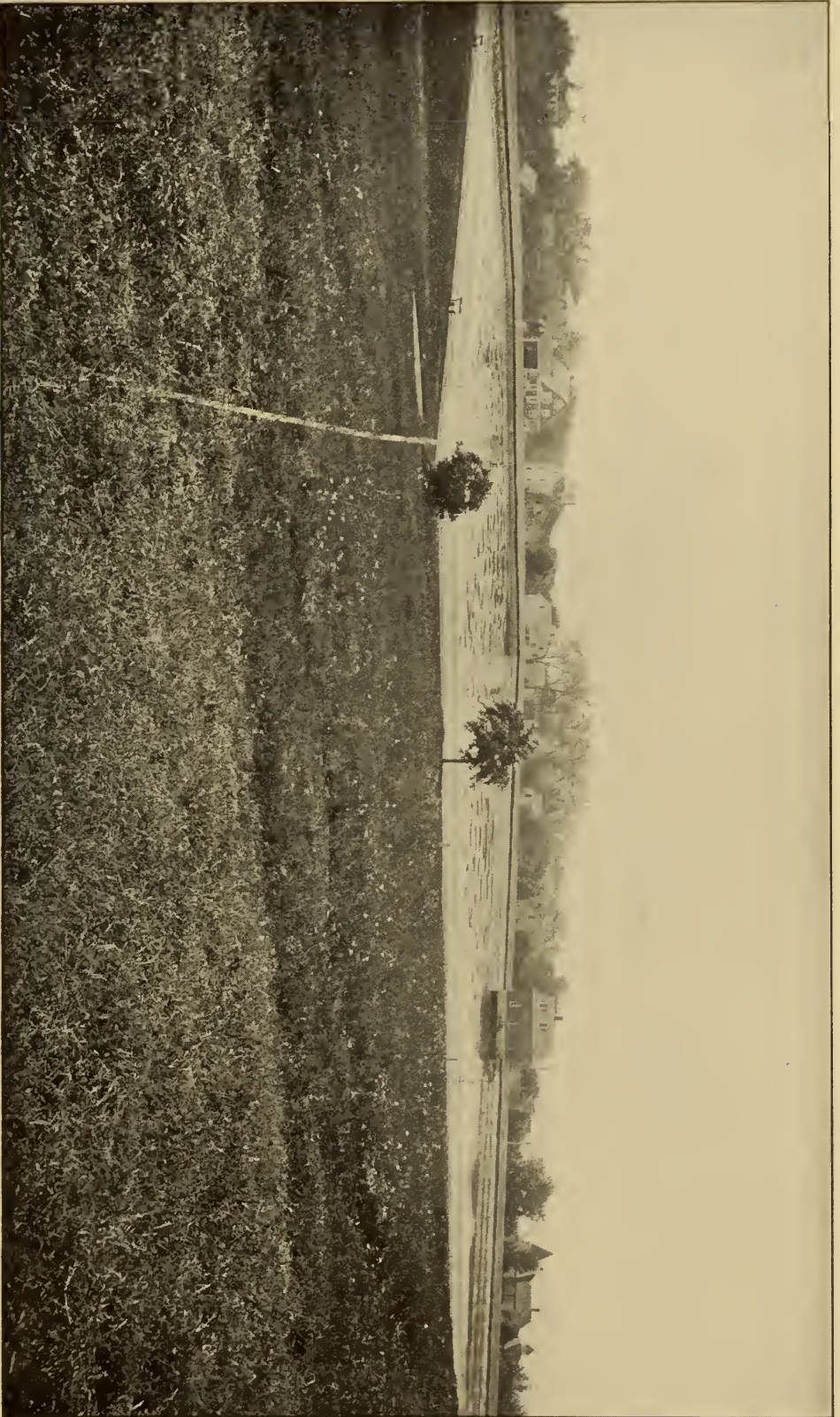
The maximum pumpage for any one week was on the week of February 16 — 22, viz : —

At West Sixth Street station	38,407,670 Gallons.
At Cook Wells station	20,579,424 Gallons.
Total	58,987,094 Gallons.

The pumpage for High Service was 68,174,988 gallons, which is 15,301,230 gallons more than last year.

The cost of Low Service pumpage is nineteen dollars and sixty-nine cents (\$19.69) per million gallons, a decrease of four dollars and thirty-four cents (\$4.34) per million gallons from that of last year.

The cost of High Service pumpage is eleven dollars and fifty-two cents (\$11.52) per million gallons, which added to the cost of Low Service pumpage (\$19.69), makes the total cost of pumpage into the High Service system, thirty-one dollars and twenty-one cents (\$31.21) per million gallons a decrease of nine dollars and ten cents (\$9.10) per million gallons from that of last year.



LOW SERVICE RESERVOIR — LOOKING SOUTHWEST.

TABLE SHOWING QUANTITY PUMPED EACH MONTH AT THE SEVERAL STATIONS DURING THE YEAR 1904.

PUMPING STATIONS												
Months	Driven Wells					West Sixth Street					Grand Totals	Net Totals
	Cook Wells	Lower Boulevard	Upper Boulevard	Totals	Net Totals	Worth'gton High Duty	Worth'gton Duplex	Morris	Totals Low Service	High Service		
Jan. ....	.....	215,259,420	.....	215,259,420	.....	206,595,000	.....	.....	206,595,000	4,197,354	426,031,774	206,595,000
Feb.	39,787,328	178,073,321	.....	217,860,649	39,787,328	155,946,750	2,148,920	10,305,600	168,401,270	3,888,728	389,650,647	208,188,598
March...	7,388,104	173,488,145	.....	180,871,249	7,388,104	124,138,500	.....	41,809,600	165,948,100	2,742,908	349,562,257	173,831,204
April ...	.....	21,165,611	137,525,632	158,691,243	.....	.....	23,637,500	119,552,320	143,189,820	3,109,624	304,990,687	143,189,820
May .....	.....	.....	163,871,481	163,871,481	.....	3,626,250	.....	156,951,040	160,577,290	3,636,780	328,085,551	160,577,290
June.....	.....	2,270,888	159,921,373	162,192,261	.....	165,437,250	1,153,200	.....	166,590,450	3,012,114	331,794,825	166,590,450
July .....	.....	184,639,496	.....	184,639,496	.....	125,377,100	21,509,040	26,416,640	173,303,180	12,308,100	370,251,470	173,303,180
Aug.	16,777,280	154,026,231	.....	170,803,511	16,777,280	7,096,875	1,763,900	131,360,320	140,221,095	13,485,360	324,509,566	156,998,375
Sept. . . .	.....	106,681,329	57,083,642	163,764,971	.....	95,098,125	51,342,200	17,733,760	164,174,085	11,847,430	339,786,486	164,174,085
Oct. . . . .	.....	.....	157,488,945	157,488,945	.....	44,052,750	21,187,570	90,013,120	155,253,440	4,437,300	317,179,685	155,253,440
Nov. ....	.....	.....	140,826,450	140,826,450	.....	.....	.....	136,861,440	136,861,440	2,804,131	280,552,024	136,861,440
Dec. ....	.....	122,885,295	57,946,859	180,832,154	.....	2,769,375	12,276,310	147,379,200	162,424,885	3,144,456	346,401,495	162,424,885
Totals..	63,947,712	1,158,489,736	874,664,382	2,097,101,830	63,947,712	930,138,375	135,018,640	878,383,040	1,943,540,055	68,174,988	4,108,816,873	2,007,487,767

TABLE SHOWING SOURCE OF SUPPLY, QUANTITY PUMPED AND COST OF PUMPING AT THE SEVERAL STATIONS DURING THE YEAR 1904.

PUMPING STATIONS	SOURCE OF SUPPLY—WELL WATER				COST	
	345 Driven Wells at Pawtucket Boulevard	210 Driven Wells in the Valley of River Meadow Brook	Distributing-Mains of Low Service System	Totals in U. S. Gallons	Totals	Per Million Gallons
West Sixth Street Low Service	1,943,540,055	.....	.....	1,943,540,055	\$18,301.81	\$ 9.42—
High Service.....	.....	.....	68,174,988	68,174,988	785.10	11.52—
Cook Wells. ....	.....	63,947,712	.....	63,947,712	1,323.00	20.69—
Lower Boulevard ..	1,158,489,736	.....	.....	1,158,489,736	13,783.72	11.90—
Upper Boulevard	874,664,382	.....	.....	874,664,382	6,112.26	6.99—
Total Pumpage .....	.....	.....	.....	4,108,816,873	\$40,305.89	\$9.81—
Deduct { at Lower Boulevard.	1,158,489,736*	.....	.....	.....	.....	.....
quantity { at Upper Boulevard	874,664,382*	.....	.....	.....	.....	.....
pumped { by High Service.....	.....	.....	68,174,988	2,101,329,106	.....	.....
Net Pumpage. ....	.....	.....	.....	2,007,487,767	\$40,305.89	\$20.08—
Cost exclusive of High Service .....	.....	.....	.....	.....	.....	\$19.69—
Total cost of High Service pumpage .....	.....	.....	.....	.....	.....	\$31.21—

*Repumped at West Sixth Street.

The following tables, showing the performance of the engines, depth and quantity of water in the Beacon Street Reservoir, average temperature of the air and water at the Beacon Street Reservoir, and the average monthly and daily consumption of water, have been calculated and compiled from the records kept by the engineers and gate-keeper.

TABLE SHOWING WORK DONE WITH WORTHINGTON HIGH DUTY ENGINE, FOR
EACH MONTH DURING THE YEAR 1904.

MONTHS	No. of days pumping	Average No of hours pumping per day	No. of hours pumping per month	No. of strokes made per month	Average No. of strokes made per minute	Average head, including friction, in feet	Quantity pumped per month in U. S. gallons	Average quantity pumped per day in U. S. gallons	No. gallons of water pumped into reservoir per lb. total coal consumed	Duty in lbs. 1 foot high coal used in pump $\frac{5}{8}$ only; no deduction for ashes or clinkers	Duty on total coal consumed; no deduction for ashes or clinkers
January	31	24-00	744-00	550,920	12.34	164.44	206,595,000	6,664,355	616	84,987,039	84,413,135
February	27	22-21	603-30	415,858	11.48	164.77	155,946,750	5,775,806	583	82,832,431	80,017,407
March	23	23-13	534-00	331,036	10.33	164.70	124,138,500	5,397,326	593	81,410,453	81,410,453
April .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May	1	17-00	17-00	9,670	9.48	164.83	3,626,250	3,626,250	646	88,730,939	88,730,939
June	30	23-40	710-00	441,166	10.36	164.75	165,437,250	5,514,575	627	87,617,327	86,125,706
July	23	22-01	506-30	334,340	11.00	164.75	125,377,500	5,451,196	610	84,209,750	83,718,327
August	3	10-00	30-00	18,925	10.51	164.10	7,096,875	2,365,625	439	67,607,641	60,075,222
September	22	18-48	413-30	253,595	10.22	163.92	95,098,125	4,322,642	454	62,487,391	62,069,429
October	10	18-24	184-00	117,474	10.64	164.26	44,052,750	4,405,275	438	66,838,492	59,930,5.8
November .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
December	2	5-15	10-30	7,385	11.72	164.43	2,769,375	1,384,687	444	60,847,197	60,847,197
Totals and Averages..	172	21-49	3:53-00	2,480,369	11.02	164.54	930,138,375	5,407,781	574	80,249,796	78,750,764

TABLE SHOWING WORK DONE WITH WORTHINGTON DUPLEX ENGINE, FOR EACH MONTH DURING THE YEAR 1904.

MONTHS	No. of days pumping	Average No. of hours pumping per day	No. of hours pumping per month	No. of strokes made per month	Average No. of strokes made per minute	Average head including friction, in feet	Quantity pumped per month in U. S. gallons	Average quantity pumped per day in U. S. gallons	No. gallons of water pumped into reservoir per lb. total coal consumed	Duty in lbs. 1 foot high coal used in pumpi'g only, no deduction for ashes or clinkers	Duty on total coal consumed, no deduction for ashes or clinkers
January .....	....	.....	.. ..	.....	.....	.....	.....	.....	...	.....	.....
February	1	10-30	10-30	6,932	11.00	162.72	2,148,920	2,148,920	398	53,946,099	53,946,099
March .....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April	6	19-30	117-00	76,250	10.86	163.32	23,637,500	3,939,583	377	51,344,871	51,344,871
May .....	....	.....	.....	.....	.....	.. ..	.....	.....	.....	.....	.....
June	1	5-00	5-00	3,720	12.40	162.22	1,153,200	1,153,200	367	49,588,386	49,588,386
July	6	17-45	106-30	69,384	10.86	161.90	21,509,040	3,584,840	386	52,067,880	52,067,880
August	1	8-00	8-00	5,690	11.85	161.52	1,763,900	1,763,900	350	47,111,109	47,111,109
September ...	11	20-05	221-00	165,620	12.49	162.58	51,342,200	4,667,473	402	54,447,722	54,447,722
October	5	20-30	102-30	68,347	11.11	164.85	21,187,570	4,237,514	349	53,203,951	47,880,967
November ...	...	.....	.....	.....	.....	.....	.....	.....	...	.....	.....
December ...	3	16-20	49-00	39,601	13.47	165.03	12,276,310	4,092,103	370	55,269,709	50,934,706
Totals and Averages..	34	18-13	619-30	435,544	11.72	163.10	135,018,640	3,971,136	382	53,210,420	51,888,786

TABLE SHOWING WORK DONE WITH MORRIS ENGINE (BEAM AND FLY WHEEL)
FOR EACH MONTH DURING THE YEAR 1904.

MONTHS	No. of days pumping	Average No. of hours pumping per day	No. of hours pumping per month	No. of strokes made per month	Average No. of strokes made per minute	Average head, including friction, in feet	Quantity pumped per month in U. S. gallons	Average quantity pumped per day in U. S. gallons	No. gallons of water pumped into reservoir per lb. total coal consumed	Duty in lbs. 1 foot high coal used in pump, only, no deduction for ashes or clinkers	Duty on total coal consumed, no deduction for ashes or clinkers
January.....	....	.....	.....	.....	.....	.....	.....	.....	....	.....	.....
February....	3	18-10	54-30	32,205	9.85	164.80	10,305,600	3,435,200	490	70,021,532	67,355,831
March.....	10	21-00	210-00	130,635	10.37	162.30	41,809,600	4,180,960	506	68,377,156	68,377,156
April.....	26	22-47	592-30	373,601	10.51	162.40	119,552,320	4,598,166	558	77,124,088	75,469,368
May.....	31	23-27	727-00	490,472	11.24	162.43	156,951,040	5,062,937	615	83,231,769	83,231,769
June.....	....	.....	.....	.....	.....	.....	.....	.....	....	.....	.....
July.....	6	21-20	128-00	82,552	10.75	163.16	26,416,640	4,402,773	565	80,278,673	76,778,228
August.....	27	22-51	617-00	410,501	11.09	162.97	131,360,320	4,865,197	594	82,019,302	80,611,093
September..	5	16-30	82-30	55,418	11.20	164.07	17,733,760	3,546,752	527	72,114,267	72,114,267
October.....	20	21-45	435-00	281,291	10.78	164.54	90,013,120	4,500,656	513	74,014,259	70,334,516
November...	30	23-36	708-00	427,692	10.07	164.75	136,861,440	4,562,048	484	68,488,143	66,453,662
December...	30	22-19	669-30	460,560	11.47	164.45	147,379,200	4,912,640	491	67,903,484	67,315,109
Totals and Averages..	188	22-28	4,224-00	2,744,947	10.83	163.52	878,383,040	4,672,250	538	74,698,741	73,282,695

TABLE SHOWING WORK DONE WITH WORTHINGTON HIGH SERVICE ENGINE FOR
EACH MONTH DURING THE YEAR 1904.

MONTHS	No. of days pumping	Average No. of hours pumping per day	No. of hours pumping per month	No of strokes made per month	Average No. of strokes made per minute	Average head, including friction, in feet	Quantity pumped per month in U. S. gallons	Average quantity pumped per day in U. S. gallons	No. gallons of water pumped into reservoir per lb. total coal consumed	Coal in lbs. used when pumping
January.. ...	12	19-00	228-00	299,811	21.92	70.44	4,197,354	349,779	300	13,991
February...	11	16-11	178-00	242,052	22.66	70.44	3,388,728	308,066	300	11,296
March	9	16-33	149-00	195,922	21.92	70.44	2,742,908	304,768	300	9,143
April	10	17-15	172-30	222,116	21.46	70.44	3,109,624	310,962	300	10,365
May	10	17-06	171-00	259,770	25.32	70.44	3,636,780	363,678	300	12,123
June	9	16-30	148-30	215,151	24.15	70.44	3,012,114	334,679	300	10,040
July	30	23-39	709-30	879,200	20.65	93.59	12,308,800	410,293	300	41,029
August	31	24-00	744-00	963,240	21.58	93.59	13,485,360	435,012	300	44,951
September...	30	24-00	720-00	846,245	19.59	93.59	11,847,430	394,914	300	39,491
October	12	19-12	230-30	316,950	22.92	80.10	4,437,300	369,775	300	14,791
November...	8	18-22	147-60	204,581	23.20	70.44	2,864,134	358,017	300	9,547
December...	10	17-15	172-30	224,604	21.70	70.44	3,144,456	314,446	300	10,482
Totals and Averages..	182	20-43	3,770-30	4,869,642	21.53	82.64	68,174,988	374,588	300	227,249

TABLE SHOWING AMOUNT OF COAL USED FOR
WORTHINGTON HIGH DUTY ENGINE AT PUMP-
ING STATION DURING THE YEAR 1904.

MONTHS	COAL CONSUMED			
	For Starting Fires, In Pounds	When Pumping, In Pounds	For Banking Fires, In Pounds	Total Per Month, In Pounds
January.....	2,265	333,141	.....	335,406
February	7,195	258,528	1,900	267,623
March.....	.....	209,302	.....	209,302
April.....	.....	.....	.....	.....
May.....	.....	5,614	.....	5,614
June	3,440	259,252	1,050	263,742
July.....	600	204,426	600	205,626
August	1,000	14,356	800	16,156
September	700	207,905	700	209,305
October.....	4,800	90,226	5,600	100,626
November .....	.....	.....	.....	.....
December.....	.....	6,237	.....	6,237
Totals	20,000	1,588,987	10,650	1,619,637

TABLE SHOWING AMOUNT OF COAL USED FOR
WORTHINGTON DUPLEX ENGINE AT PUMP-
ING STATION DURING THE YEAR 1904.

MONTHS	COAL CONSUMED			
	For Starting Fires, In Pounds	When Pumping, In Pounds	For Banking Fires, In Pounds	Total Per Month, In Pounds
January.....	.....	.....	.....	.....
February .....	.....	5,402	.....	5,402
March.....	.....	.....	.....	.....
April.....	.....	62,661	.....	62,661
May.....	.....	.....	.....	.....
June .....	.....	3,144	.....	3,144
July.....	.....	55,738	.....	55,738
August .....	.....	5,040	.....	5,040
September .....	.....	127,766	.....	127,766
October.....	4,385	54,609	1,800	60,794
November .....	.....	.....	.....	.....
December	1,300	30,549	1,300	33,149
Totals	5,685	344,909	3,100	353,694

TABLE SHOWING AMOUNT OF COAL USED FOR
MORRIS ENGINE AT PUMPING STATION
DURING THE YEAR 1904.

MONTHS	COAL CONSUMED			
	For Starting Fires, In Pounds	When Pumping, In Pounds	For Banking Fires, In Pounds	Total Per Month, In Pounds
January.....	.....	.....	.....	.....
February	400	20,214	400	21,014
March.....	.....	82,706	.....	82,706
April	2,300	209,801	2,300	214,401
May.....	.....	255,267	.....	255,267
June .....	.....	.....	.....	.....
July.....	2,040	44,745	.....	46,785
August .....	.....	217,525	3,800	221,325
September .....	.....	33,625	.....	33,625
October.....	7,125	166,769	1,600	175,494
November	4,200	274,375	4,200	282,775
December	1,300	297,462	1,300	300,062
Totals	17,365	1,602,489	13,600	1,633,454

TABLE SHOWING AMOUNT OF COAL USED FOR
DEANE ENGINES AT PUMPING STATION,
COOK WELLS, DURING THE YEAR 1904.

MONTHS	COAL CONSUMED			
	For Starting Fires, In Pounds	When Pumping, In Pounds	For Banking Fires, In Pounds	Total Per Month, In Pounds
January.....
February	182,855	.....	182,855
March	31,540	.....	31,540
April
May.....
June
July
August	78,139	.....	78,139
September
October
November
December
Totals	292,534	.....	292,534

TABLE SHOWING AMOUNT OF COAL USED FOR
KNOWLES ENGINES AT PUMPING STATION,
LOWER BOULEVARD, DURING
THE YEAR 1904.

MONTHS	COAL CONSUMED			
	For Starting Fires, In Pounds	When Pumping, In Pounds	For Banking Fires, In Pounds	Total Per Month, In Pounds
January.....	565,055	.....	565,055
February	471,750	.....	471,750
March.....	434,600	.....	434,600
April.....	40,380	.....	40,380
May.....	15,395	15,395
June	8,000	.....	8,000
July.....	396,350	.....	396,350
August	301,263	.....	301,263
September	216,363	.....	216,363
October
November
December.....	256,285	.....	256,285
Totals	2,690,046	15,395	2,705,441

TABLE SHOWING AMOUNT OF COAL USED FOR
WORTHINGTON ENGINES AT PUMPING STATION,
UPPER BOULEVARD, DURING
THE YEAR 1904.

MONTHS	COAL CONSUMED			
	For Starting Fires, In Pounds	When Pumping, In Pounds	For Banking Fires, In Pounds	Total Per Month, In Pounds
January.....
February
March.....
April.....	260,300	.....	260,300
May.....	308,715	.....	308,715
June	286,140	.....	286,140
July.....
August
September	104,438	.....	104,438
October.....	268,835	.....	268,835
November	242,700	.....	242,700
December	83,800	.....	83,800
Totals	1,554,928	.....	1,554,928

WEST SIXTH STREET PUMPING STATION, WORTH-
INGTON HIGH DUTY ENGINE, RUNNING
EXPENSES FOR THE YEAR 1904.

Pay of Engineers and Firemen.....	\$4,173.55
206 1958-2000 tons of coal (Cumberland 1903) at \$5.084+	1,052.34
125 914-2000 tons of coal (Sonman Cumb. 1904) at \$5.125.....	642.97
26 729-2000 toas of coal (New River Cumb. 1904) at \$4.196+	110.64
451 36-2000 tons of coal (New River Cumb. 1904) at \$4.062+	1,832.27
312 11-100 gallons of cylinder oil, at \$0.526+	164.29
129 72-100 gallons of engine oil, at \$0.341—	44.21
123 71-100 pounds of packing, at \$0.906—	112.07
221 3-100 pounds of cotton waste, at \$0.125—	27.54
336 50-100 pounds of castorine and keystone grease, at \$0.138+	46.44
54 pounds of tallow, at \$0.06	3.24
Repairs on engines	199.47
Repairs on boilers	147.10
Tools and stock	11.17
Sundries.....	60.79
Total.....	<u>\$8,628.09</u>

Cost of pumping water into reservoir per million gallons, \$9.28—.

Cost of pumping water one foot high per million gallons, \$0.05 64-100.

WEST SIXTH STREET PUMPING STATION, WORTH-
INGTON DUPLEX ENGINE, RUNNING
EXPENSES FOR THE YEAR 1904.

Pay of Engineers and Firemen.....	\$635.11
11 1998-2000 tons of coal (Cumb. 1903) at \$5.084+	61.01
25 1470-2000 tons of coal (Sonman Cumb. 1904) at \$5.125.....	131.89
139 226-2000 tons of coal (New River Cumb. 1904) at \$4.062+	565.15
47 50-100 gallons of cylinder oil, at \$0.526+	25.00
19 74-100 gallons of engine oil, at \$0.341—	6.73
13 3-10 pounds of packing, at \$0.576.....	7.66
33 63-100 pounds of cotton waste, at \$0.125—	4.19
15 pounds of tallow, at \$0.06.....	.90
Repairs on boilers.....	22.38
Tools and stock.....	1.70
Sundries	9.25
Total	<u>\$1,470.97</u>

Cost of pumping water into reservoir per million gallons, \$10.89+.

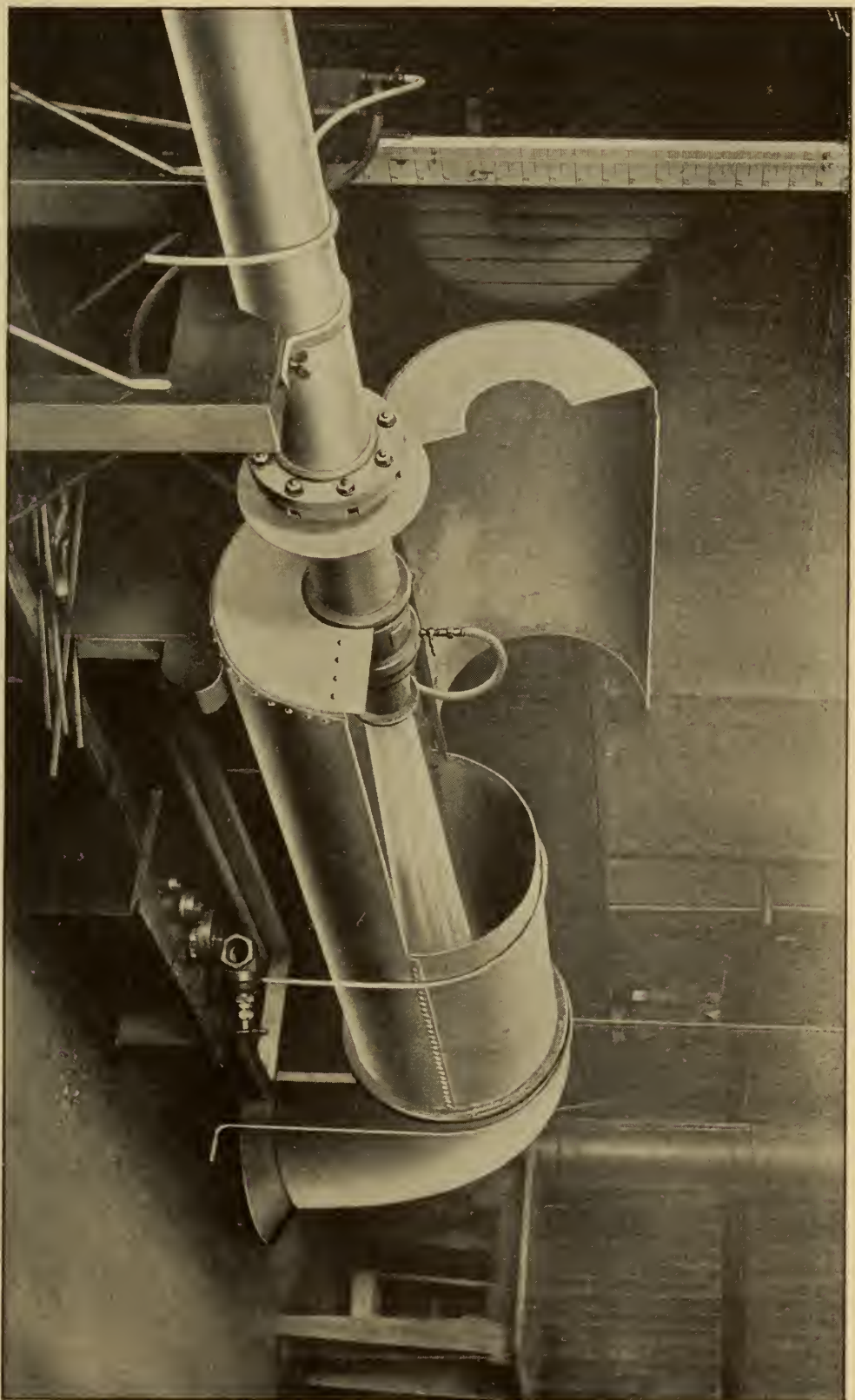
Cost of pumping water one foot high per millian gallons, \$0.06 68-100—.

WEST SIXTH STREET PUMPING STATION, MORRIS
ENGINE, RUNNING EXPENSES FOR
THE YEAR 1904.

Pay of Engineers and Firemen.....	\$3,992.09
74 1985-2000 tons of coal (Cumb. 1903) at \$5.084+	381.28
164 119-2000 tons of coal (Sonman Cumb. 1904) at \$5.125	840.80
127 1267-2000 tons of coal (New River Cumb. 1904) at \$4.196+ ..	535.60
450 83-2000 tons of coal (New River Cumb. 1904) at \$4.062+	1,828.29
298 54-100 gallons of cylinder oil, at \$0.526+	157.15
124 8-100 gallons of engine oil, at \$0.341—	42.29
46 26-100 pounds of packing, at \$0.597+	27.64
211 42-100 pounds of cotton waste, at \$0.125—	26.34
27 pounds of tallow, at \$0.06	1.62
Repairs on engine	160.12
Repairs on boilers.....	140.70
Tools and stock	10.68
Sundries	58.15
Total	<u>\$8,202.75</u>

Cost of pumping water into reservoir per million gallons, \$9.34—.

Cost of pumping water one foot high per million gallons, \$0.05 71-100+.



4-INCH NOZZLE DISCHARGING 2,600 GALLONS PER MINUTE.

WEST SIXTH STREET PUMPING STATION, HIGH
SERVICE ENGINE, RUNNING EXPENSES
FOR THE YEAR 1904.

Pay of Engineers and Firemen.....	\$272.19
5 1999-2000 tons of coal (Cumb. 1903), at \$5.084+	30.50
6 867-2000 tons of coal (Sonman Cumb. 1904), at \$5.125	32.97
6 123-2000 tons of coal (New River Cumb. 1904), at \$4.196+	25.43
95 260-2000 tons of coal (New River Cumb. 1904), at \$4.062+	386.47
20 35-100 gallons of cylinder oil, at \$0.526+	10.71
8 46-100 gallons of engine oil, at \$0.341—	2.89
8 42-100 pounds of packing, at \$0.652+	5.49
14 42-100 pounds of cotton waste, at \$0.125—	1.80
Repairs on engine.....	2.37
Repairs on boilers.....	9.59
Tools and stock.....	.73
Sundries	3.96
 Total	 \$785.10

Cost of pumping water into reservoir per million gallons, \$11.52—.

Cost of pumping water one foot high per million gallons, .13 93-100+.

COOK WELLS PUMPING STATION, DEANE ENGINES,
 RUNNING EXPENSES FOR THE
 YEAR 1904.

Pay of Engineers and Firemen.....	\$323.80
146 534-2000 tons of coal (Sonman Cumb. 1903), at \$5.125	749.62
50 gallons of kerosene oil for lighting works, at \$0.11	5.50
49 gallons of cylinder oil, at \$0.44	21.56
5 gallons of engine oil, at \$0.35	1.75
47 5-10 pounds of packing, at \$0.348+	16.55
25 pounds of cotton waste, at \$0.125—	3.12
Repairs on engines	36.90
Repairs on boilers.....	82.35
Tools and stock.....	41.83
Sundries	40.02
 Total	 \$1,323.00

Cost of pumping water into distributing mains per million gallons, \$20.69—.

LOWER BOULEVARD PUMPING STATION, KNOWLES
ENGINES, RUNNING EXPENSES FOR
THE YEAR 1904.

Pay of Engineers and Firemen.....	\$4,564.00
755 1785-2000 tons of coal (Cumb. 1903), at \$7.646	5,779.55
589 261-2000 tons of coal (New River Cumb. 1904), at \$4.241+	2,498.54
400 gallons of kerosene oil for lighting works, at \$0.114—	45.50
139 gallons of cylinder oil, at \$0.456+	63.43
25 5-10 gallons of engine oil, at \$0.35	8.92
36 56-100 pounds of packing, at \$0.753+	27.53
178 pounds of cotton waste, at \$0.122—	21.65
Repairs on engines.....	152.11
Repairs on boilers	489.76
Tools and stock.....	44.41
Sundries	88.32
Total	<hr/> \$13,783.72

Cost of pumping water into conduit per million gallons, \$11.90—.

UPPER BOULEVARD PUMPING STATION, WORTH-
INGTON ENGINES, RUNNING EXPENSES
FOR THE YEAR 1904.

Pay for Engineers and Firemen.....	\$2,390.46
284 1015-2000 tons of coal (Cumb. 1903), at \$5.105	1,452.41
492 1913-2000 tons of coal (New River Cumb. 1904), at \$4.241+ ...	2,090.66
200 gallons of kerosene oil for lighting works, at \$0.11.....	22.00
100 gallons of cylinder oil, at \$0.44	44.00
25 5-10 gallons of engine oil, at \$0.35.....	8.93
24 pounds of packing, at \$0.50.....	12.00
100 pounds of cotton waste, at \$0.125.....	12.50
Repairs on engines.....	66.30
Sundries	13.00
 Total	 \$6,112.26

Cost of pumping water into conduit per million gallons, \$6.99—.

RESERVOIR, BEACON STREET, 1904.

MONTHS	Depth in Feet	Quantity in U. S. Gallons	Temperature in Degrees	
			Of Water	Of Air
January.....	19.23	29,214,777	44.42	20.24
February	19.14	29,073,894	40.28	20.31
March.....	19.88	30,314,657	39.16	35.02
April	18.99	28,820,379	38.33	43.64
May.....	19.77	30,133,314	40.13	61.33
June	19.54	29,741,919	46.87	65.21
July	20.02	30,544,123	49.61	72.15
August	19.17	29,126,875	56.61	68.73
September	19.33	29,394,913	59.23	61.11
October.....	20.13	30,740,108	59.44	48.72
November	20.06	30,623,047	54.50	36.17
December	19.12	29,043,229	50.97	24.59

TABLE SHOWING THE AVERAGE MONTHLY AND
DAILY CONSUMPTION OF WATER FOR
THE YEAR 1904.

MONTHS	Gallons per Month	Gallons per Day
January	206,313,551	6,655,276
February	208,470,047	7,188,622
March	172,202,020	5,554,904
April	143,755,543	4,791,851
May	161,841,904	5,220,707
June	166,869,926	5,562,331
July	172,883,755	5,576,895
August.....	159,220,706	5,136,152
September.....	162,510,706	5,417,024
October	153,145,743	4,940,185
November.....	137,426,597	4,580,887
December	162,987,781	5,257,670
Totals and Averages	2,007,628,279	5,485,323

The following table shows the average daily consumption of water, in gallons, for each month and each year since the installation of the system.

AVERAGE DAILY CONSUMPTION OF WATER, IN GALLONS, FOR EACH MONTH AND
YEAR FROM JANUARY, 1873, TO DECEMBER, 1904, INCLUSIVE.

YEARS	MONTHS												For the Year
	January	February	March	April	May	June	July	August	September	October	November	December	
1873	308,777	373,437	327,321	356,148	430,301	569,770	836,215	588,634	571,621	531,022	480,646	591,202	511,462
1874	633,810	607,770	638,840	609,470	708,767	919,830	977,360	895,820	880,880	760,560	750,060	890,220	789,208
1875	1,211,480	1,377,880	1,092,070	920,810	1,061,770	1,314,750	1,389,560	1,260,070	1,248,470	1,117,280	1,130,260	1,549,500	1,222,300
1876	1,484,980	1,527,830	1,325,790	1,073,602	1,275,180	1,554,764	2,011,640	1,662,020	1,539,326	1,348,380	1,193,376	1,803,810	1,484,882
1877	1,993,990	1,616,882	1,443,180	1,291,636	1,455,870	1,780,113	2,767,740	1,758,760	1,906,975	1,501,890	1,496,773	1,500,420	1,631,360
1878	2,038,990	1,894,890	1,683,690	1,287,310	1,824,140	1,760,330	2,262,500	1,878,048	1,878,048	1,643,400	1,515,424	1,804,850	1,784,960
1879	2,407,950	2,241,030	1,921,940	1,716,990	2,020,250	1,991,590	2,438,170	2,050,340	1,908,050	1,950,330	1,756,600	2,178,000	2,023,200
1880	1,977,760	2,144,660	1,933,610	1,839,800	2,223,670	2,486,780	2,338,080	2,492,330	2,408,940	2,268,430	2,229,356	2,574,600	2,252,197
1881	3,151,280	3,054,550	2,245,410	2,222,330	2,223,590	2,281,370	2,388,280	2,472,830	2,350,290	2,205,760	2,082,790	2,158,930	2,399,168
1882	2,883,560	2,809,540	2,263,290	2,163,990	2,203,580	2,774,220	3,220,640	3,220,680	2,651,590	2,434,430	2,211,800	2,629,940	2,622,615
1883	3,341,650	3,068,900	2,893,330	2,436,600	2,730,670	2,907,920	2,988,780	3,220,780	2,910,440	2,403,160	2,374,830	3,063,920	2,862,710
1884	3,600,150	3,032,120	3,025,910	2,513,700	2,620,820	3,127,330	3,185,420	3,166,500	3,111,910	2,806,130	2,648,010	3,334,160	3,016,040
1885	4,137,730	4,924,980	3,907,890	3,103,350	2,956,500	3,443,140	3,643,920	3,303,190	3,243,620	3,567,880	3,125,447	3,547,620	3,563,220
1886	4,527,610	4,927,900	4,213,570	3,490,590	3,416,380	3,903,860	4,084,170	3,922,610	3,693,650	3,440,450	3,516,680	4,408,650	3,937,650
1887	5,470,290	4,762,659	4,276,024	3,707,956	4,222,327	4,300,546	4,522,064	4,320,440	4,200,049	3,894,148	3,672,885	4,480,818	4,319,164
1888	6,611,570	6,707,935	5,305,426	4,213,317	4,241,156	4,836,489	4,868,093	4,646,388	4,367,616	4,378,843	4,512,348	5,131,297	4,931,118
1889	4,889,917	5,495,132	4,344,194	4,139,759	4,516,328	4,738,913	4,919,008	4,769,079	4,668,705	4,349,478	4,266,827	4,560,882	4,633,165
1890	5,034,449	5,317,487	5,037,524	4,697,240	4,692,172	5,234,919	6,101,724	5,533,936	5,671,520	5,380,569	5,074,790	6,674,367	5,373,536
1891	6,346,284	6,049,030	5,668,225	5,292,180	5,530,909	6,076,131	6,191,190	6,467,698	6,179,573	5,747,054	5,661,719	5,823,698	5,919,692
1892	5,911,281	6,614,450	6,083,591	5,340,879	5,241,053	6,371,317	6,742,737	6,460,251	6,336,374	6,290,239	5,613,792	5,899,565	6,074,263
1893	8,659,870	8,888,586	6,998,144	5,646,919	5,910,870	6,330,711	7,796,530	6,790,631	6,194,761	6,415,510	5,990,053	7,325,056	6,816,943
1894	7,263,744	7,817,660	6,580,717	6,014,810	6,154,297	6,905,305	7,104,453	6,571,033	6,190,377	5,821,950	5,909,004	6,550,504	6,168,170
1895	7,280,484	8,318,300	6,469,630	6,034,913	6,482,212	7,033,375	7,032,587	7,343,446	7,153,030	6,674,267	6,249,076	7,119,614	6,922,092
1896	8,347,435	7,938,693	6,645,162	6,723,680	7,034,685	7,093,227	7,407,605	7,058,722	6,197,896	5,970,660	5,956,262	6,814,985	6,933,308
1897	7,422,486	7,050,337	6,498,264	6,187,508	6,401,053	6,296,706	6,885,239	6,353,958	6,348,176	6,301,085	6,499,027	6,898,918	6,594,364
1898	7,769,816	7,214,795	6,232,698	6,202,828	6,395,113	6,612,048	7,143,828	6,970,647	7,002,017	6,300,619	6,128,699	6,965,348	6,734,864
1899	7,417,719	8,114,248	6,803,182	6,554,963	6,551,731	8,008,104	8,664,229	7,136,128	7,037,015	7,037,015	6,797,952	6,858,218	7,286,205
1900	7,511,163	8,127,419	8,024,115	7,665,868	7,734,911	8,037,993	8,696,110	8,268,526	8,138,836	7,886,297	7,292,997	7,844,543	7,893,356
1901	8,266,601	9,055,112	8,260,895	6,914,082	6,580,172	7,083,342	7,263,332	6,766,772	6,514,839	6,183,286	5,748,730	6,197,726	7,059,631
1902	6,171,220	6,114,804	5,651,749	5,446,046	5,797,401	6,217,117	6,083,104	5,903,107	5,411,552	5,107,818	4,771,831	5,969,016	5,729,325
1903	6,160,966	6,054,616	5,115,198	5,147,423	5,581,932	5,124,402	5,683,775	5,018,208	4,836,025	4,809,428	4,613,355	5,112,584	5,266,823
1904	6,655,276	7,188,622	5,554,904	4,791,851	5,220,707	5,562,331	5,576,895	5,136,152	5,417,024	4,940,185	4,580,887	5,257,670	5,485,323

SUMMARY OF STATISTICS.

FOR THE YEAR ENDING DECEMBER 31, 1904.

In form recommended by the New England Water Works Association.

LOWELL WATER WORKS.

LOWELL, MIDDLESEX COUNTY, MASSACHUSETTS.

GENERAL STATISTICS.

Population by census of 1900, 94,969.

Date of construction, 1870, to 1873.

Date of construction, High Service, 1881.

Date of construction, Driven wells, 1893 to 1903.

By whom owned : The City of Lowell.

Source of supply : Two hundred ten (210) driven wells in the valley of River Meadow Brook, and three hundred forty-five (345) driven wells at Pawtucket Boulevard.

Mode of supply : Pumping to reservoir and pumping direct.

PUMPING STATISTICS.

I. Builders of Pumping Machinery.

AT WEST SIXTH STREET STATION.

One engine, capacity 5,000,000 gallons in 24 hours, Henry G. Morris.

One engine, capacity 5,000,000 gallons in 24 hours, Henry R. Worthington.

One engine, capacity 10,000,000 gallons in 24 hours, Henry R. Worthington.

One engine, capacity 500,000 gallons in 24 hours, Henry R. Worthington.

AT COOK WELLS STATION, TEMPORARY PUMPS.

One engine, capacity 3,000,000 gallons in 24 hours, The Deane Steam Pump Co.

One engine, capacity 3,000,000 gallons in 24 hours, The Deane Steam Pump Co.

AT LOWER BOULEVARD STATION, TEMPORARY PUMPS.

One engine, capacity 3,000,000 gallons in 24 hours, Knowles Steam Pump Works.

One engine, capacity 3,000,000 gallons in 24 hours, Knowles Steam Pump Works.

One engine, capacity 3,000,000 gallons in 24 hours, Knowles Steam Pump Works.

AT UPPER BOULEVARD STATION, TEMPORARY PUMPS.

One engine, capacity 3,000,000 gallons in 24 hours, Henry R. Worthington.

One engine, capacity 3,000,000 gallons in 24 hours, Henry R. Worthington.

2. Description of fuel used:

{	<ol style="list-style-type: none"> a. Kind, bituminous. b. Brand of coal,—Sonman and New River. c. Average price of coal per gross ton, delivered, \$4.75+ d. Percentage of ash. e. Wood, price per cord.
---	--
3. Coal consumed for the year, 8,386,937 pounds.
(Low Service, West Sixth Street Station, 3,606,785 pounds).
4. (Pounds of wood) \div 3 = equivalent amount of coal = 2,400, West Sixth Street Station.

5. Total equivalent coal consumed for the year = (3) + (4),
8,389,337 pounds. (Low Service, West Sixth Street
Station, 3,609,185 pounds).
6. Total pumpage for the year, 2,007,487,767 gallons.
7. Average static head against which pumps work, 156.30 feet,
West Sixth Street Station.
8. Average dynamic head against which pumps work, 163.97
feet, West Sixth Street Station.
9. Number of gallons pumped per pound of equivalent coal (5),
239. (Low Service, West Sixth Street Station, 538).
10. Duty = $\frac{\text{Gals. pumped (6)} \times 8.34 \text{ (lbs.)} \times 100 \times \text{dynamic head (8)}}{\text{Total fuel consumed (5)}}$
= 73,640,173. West Sixth Street Station, Low Service,
Cost of pumping figured on pumping station expenses,
viz: \$39,520.79.
11. Per million gallons pumped, \$19.69 — Low Service.
12. Per million gallons raised one foot (dynamic), \$0.1201 — Low
Service.

FINANCIAL STATISTICS.

RECEIPTS

Balance brought forward:

(a) From ordinary (maintenance)

receipts \$3,059.92

Total \$3,059.92

From Water Rates

A. Fixture rates 36,153.69

B. Meter rates 138,121.52

C. Total from consumers 174,275.21

F. For street watering 1,200.00

G. For Public buildings 5,500.00

J. Total from municipal dep'ts

K. From tax levy 6,700.00

M. From other sources 17,800.00

16,098.43

N. Total..... \$217,933.56

Disposition of balance — Carried to account of 1905.

O. Net cost of works to date.....

P. Bonded debt at date

Q. Value of Sinking fund at date.....

R. Average rate of interest, four per cent.

EXPENDITURES

Water Works Maintenance

A A. Operation (management and repairs) \$ 88,357.69

C C. Total maintenance..... \$88,357.69

D D. Interest on bonds..... 45,631.00

(C C + D D) 133,988.69

E E. Payment of bonds..... 21,600.00

F F. Sinking fund 17,800.00

Water Works Construction

G G. Extension of mains..... 8,843.67

H H. Extension of services..... 4,899.13

J J. Special 2,328.79

K K. Total construction..... 16,071.59

L L. Unclassified expenses..... 9,637.96

M M. Balance

(a a) Ordinary 18,835.32

Total balance..... 18,835.32

N. Total..... \$217,933.56

\$2,996,402.05

1,075,000.00

406,430.22

STATISTICS OF CONSUMPTION OF WATER.

1. Estimated total population at date, — 104,400.
2. Estimated population on lines of pipe. (Estimated total population used).
3. Estimated population supplied. (Estimated total population used).
4. Total consumption for the year, — 2,007,628,279 gallons.
5. Passed through meters, — 875,780,355 gallons.
6. Percentage of consumption metered, — 43 62-100.
7. Average daily consumption, — 5,485,323 gallons.
8. Gallons per day to each inhabitant, — 52 5-10.
9. Gallons per day to each consumer, — 52 5-10 nearly.
10. Gallons per day to each tap, — 486.
11. Cost of supplying water, per million gallons, figured on total maintenance (item C. C.) \$44.01.
12. Total cost of supplying water, per million gallons, figured on total maintenance + interest on bonds, — \$66.74.

STATISTICS RELATING TO DISTRIBUTION SYSTEM.

MAINS.

1. Kind of pipe, cast iron.
2. Sizes, from 4 inch to 30 inch.
3. Extended 5706 feet during year.
5. Total now in use, — 133,67 miles.
8. Length of pipes less than 4 inches diameter — 2 miles, more or less.
9. Number of hydrants added during the year (public and private) 11.
10. Number of hydrants (public and private) now in use, — 1212.
11. Number of stop gates added during the year, — 26.
12. Number of stop gates now in use, — 1331.
13. Number of stop gates smaller than 4 inch, — 25.
14. Number of blow-offs, — 34.
15. Range of pressure on mains, 17 lbs. to 72 lbs. Low Service.

SERVICES.

16. Kind of pipe, Lead, Lead-lined iron, Iron and Tin-lined iron.
17. Sizes, $\frac{5}{8}$ " to 2".
18. Extended, 6,638 feet.

20. Total now in use, — 84.4 miles.
 21. Number of service traps added during the year, — 178.
 22. Number now in use, — 11,287.
 23. Average length of Service, — 39.48 feet.
 24. Average cost of service for the year, — \$27.52.
 25. Number of meters added, — 277.
 26. Number now in use, — 7,513.
 27. Percentage of services metered, — 63.5.
 28. Percentage of receipts from metered water ($B \div C$), 79.
-

The State Board of Health has made analyses of water each month from the Merrimack River (for record only), and wells at Pawtucket Boulevard; a record of which is annexed.

On August 24, 1903, your Board voted to refer to the City Engineer and Superintendent of Water Works the whole matter relative to supplying the Locks and Canals Company with water for fire purposes in such a manner as to prevent a repetition of the disaster of July 18, 1903, when the city water was polluted by River water being pumped into the city mains.

After consulting with the Engineer of the Locks and Canals Company, it was decided to remove all the connections between the pipes of their system and that of the City of Lowell, and then to allow them to use river water.

On May 13, 1904, an agreement was signed by the Mayor allowing them to substitute a 24 inch pipe for a 12 inch pipe, leading from their reservoir on Lynde's Hill through Fairmount, Mansur, Nesmith and East Merrimack Streets, across Concord River, to their pipe in Merrimack Square. This agreement provides "That the pipe shall be laid in a line and at grade approved by the City Engineer and in a manner satisfactory to him."

This has been done and your Board may congratulate itself on the successful solution of a problem, which has made possible the permanent removal of these dangerous connections.

In conclusion, I wish to thank you for your earnest co-operation and for the many courtesies I have received from you during the past year.

Respectfully submitted,

GEORGE BOWERS,

City Engineer.

COMMONWEALTH OF MASSACHUSETTS. — STATE BOARD OF HEALTH.
LOWELL WATER ANALYSIS. — Merrimack River, Above Dam. (Parts in 100,000.)

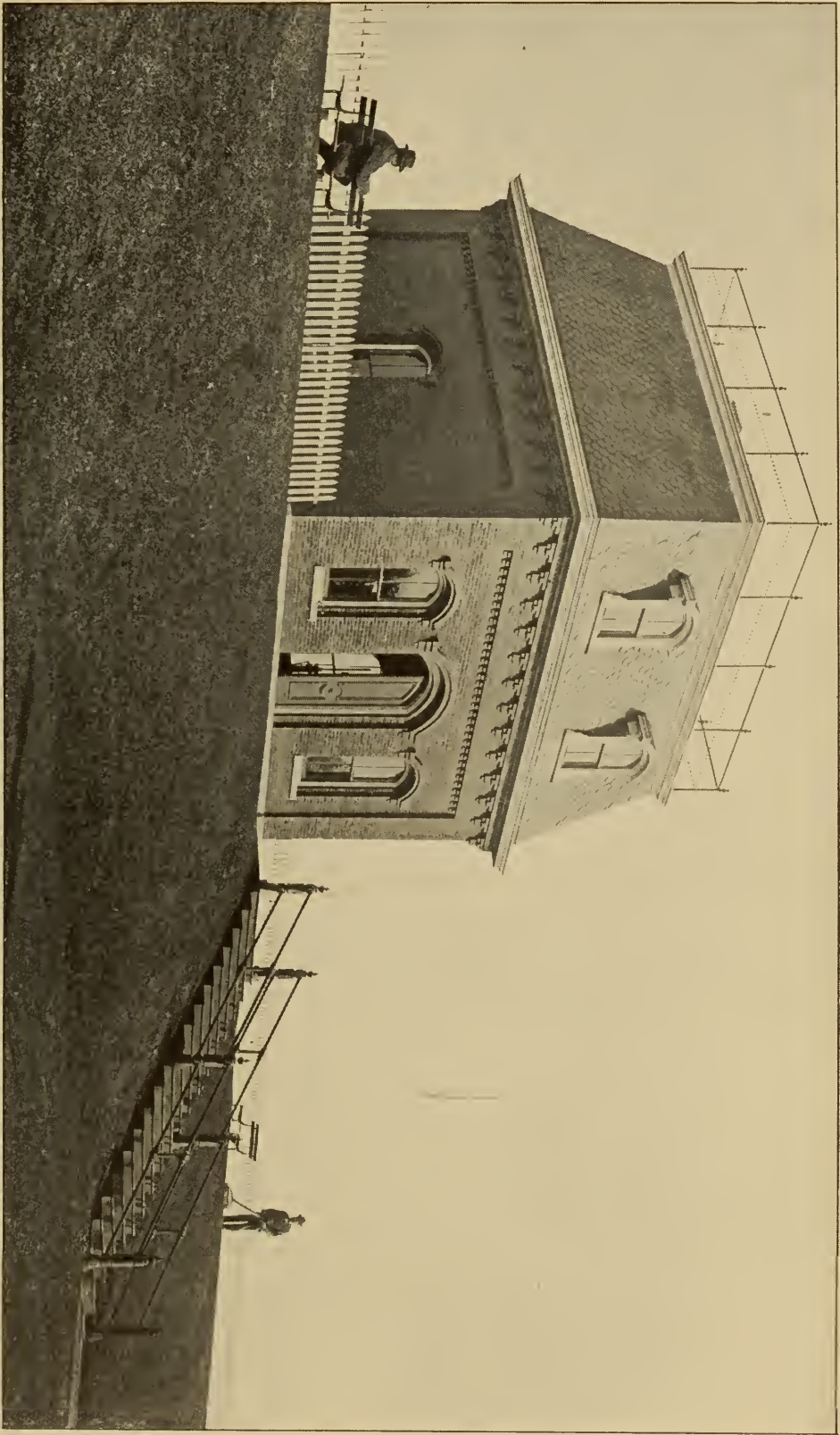
No.	Date of		Appearance		Odor		Residue on Evaporation			Ammonia			Chlorine		Nitrogen as		Iron	Oxygen Consumed
	Collection	Examination	Turbidity	Sediment	Color	Cold	Hot	Total	Loss on Ignition	Fixed	Free	Total	In Solution	In Suspension	Nitrates	Nitrites		
48,699	Jan., 1904 25	25	slight	v. slight	.26	faintly unpleasant	faintly unpleasant	4.75	1.90	2.85	.0102	.0186	.0156	.0030	.0060	.0002	....	.67
48,903	Feb. 24	25	slight	cons.	.23	faintly unpleasant	dist unpleas't tarry	4.65	1.75	2.90	.0132	.0160	.0140	.0020	.0060	.0002	....	.69
49,084	March 28	29	decided	cons., earthy	.35	faintly unpleasant	faintly unpleasant	2.55	1.15	1.40	.0020	.0276	.0136	.0140	.0040	.0000	....	.51
49,289	April 25	26	slight	cons.	.26	faintly vegetable	distinctly vegetable	2.95	1.35	1.60	.0008	.0144	.0120	.0024	.0040	.0001	....	.45
49,569	June 1	2	decided	cons.	.35	faintly vegetable	faintly vegetable	3.30	1.65	1.65	.0048	.0158	.0122	.0036	.0120	.0001	....	.50
49,865	June 28	29	slight	cons.	.24	faintly veg. & unpleasant	faintly veg. & unpleasant	6.30	2.10	4.20	.0052	.0208	.0156	.0052	.0040	.0003	....	.51
50,371	July 26	27	v. slight	slight	.23	v. faintly vegetable	faintly vegetable	4.20	1.70	2.50	.0110	.0166	.0134	.0032	.0060	.0002	....	.36
Aug.																		
51,411	Sept. 27	28	slight	cons.	.34	faintly veg. and musty	distin'tly veg. and musty	4.10	1.95	2.15	.0108	.0188	.0164	.0024	.0070	.0002	...	.72
51,882	Oct. 26	27	decided	cons.	.66	distinctly unpleasant	distinctly unpleasant	4.85	2.35	2.50	.0060	.0244	.0188	.0056	.0050	.0001	....	1.12
52,282	Nov. 29	30	v. slight	v. slight	.25	faintly vegetable	faintly veg. & unpleasant	4.25	1.65	2.60	.0068	.0188	.0128	.0060	.0030	.0002	....	.74
52,519	Dec. 19	20	decided	v. slight	.21	faintly unpleas't; tarry	distinctly unpleas't; tarry	5.15	2.00	3.15	.0096	.0208	.0162	.0046	.0050	.0002	....	.78

COMMONWEALTH OF MASSACHUSETTS. — STATE BOARD OF HEALTH.
LOWELL WATER ANALYSIS. — Boulevard Wells. (Parts in 100,000.)

No.	Date of		Appearance			Odor		Residue on Evaporation			Ammonia				Chlorine	Nitrogen as		Hardness	Iron	Oxygen Consumed
	Collection	Examination	Turbidity	Sediment	Color	Cold	Hot	Total	Loss on Ignition	Fixed	Free	Aluminoid		Nitrates		Nitrites				
												In Solution	In Suspension							
48,700	Jan., 1904 25		v. slight	cons.	.03	none	none	3.80	....	....	.0070	.0032	....	....	.28	.0200	.0001	1.6	.0310	.07*
48,904	Feb. 24 25		v. slight	v. slight	.03	none	none	5.00	...	....	.0056	.0038	...	....	.27	.0200	.0001	2.6	.0520	.11*
49,085	March 28 29		v. slight	slight	.04	none	none	4.30	...	....	.0040	.0022	...	....	.32	.0160	.0002	2.3	.0650	.04*
49,289	April 25 26		none	none	.00	none	none	4.70	....	....	.0004	.0022	...	....	.29	.0240	.0000	2.6	.0080	†
49,570	June 1	2	v. slight	none	.00	none	none	3.80	....	....	.0008	.0022	....	....	.19	.0020	.0000	1.1	.0380	.04†
49,866	June 28	29	none	none	.00	none	none	3.90	....	....	.0004	.0026	....	....	.20	.0170	.0003	1.0	.0040	.05†
50,372	July 26	27	slight	slight	.10	none	none	4.00	...	....	.0052	.0034	...	....	.22	.0070	.0002	1.3	.0580	.13*
50,929	Aug. 27	29	v. slight	slight	.10	none	none	3.90	...	....	.0052	.0052	....	....	.28	.0050	.0002	1.4	.0700	.11*
51,412	Sept. 27	28	none	iron v. slight	.02	none	none	3.90	....	....	.0000	.0030	....	....	.27	.0090	.0000	1.4	.0040	.07*
51,883	Oct. 26	27	none	v. slight	.00	none	none	3.60	....	....	.0006	.0048	....	....	.24	.0070	.0000	1.7	.0030	.08†
52,284	Nov. 29	30	none	none	.00	none	none	4.60	....	....	.0010	.0036	....	...	.25	.0130	.0000	1.7	.0020	.08†
52,520	Dec. 19	20	v. slight	slight iron	.05	none	none	4.20	....	....	.0100	.0030	....	....	.25	.0050	.0000	1.7	.1000	.12*

* Lower Boulevard.

† Upper Boulevard.



GATE HOUSE LOW SERVICE RESERVOIR.

CITY OF LOWELL.



1905.

REPORT

OF THE

COMMITTEE ON APPROPRIATION.

CITY HALL, LOWELL, MASS., March 6, 1905.

TO THE CITY COUNCIL:—

The Joint Standing Committee on Appropriations have considered the various department estimates for the year 1905, and respectfully submit herewith its report in accordance with the Ordinance.

To your Committee it seems, from the conditions which confronted us, that the City of Lowell is staggering under the weight of a burden which succeeding years increase rather than lessen. It would not be surprising if in an occasional year the City had failed to make a good showing, but we are face to face with the fact that every year seems to bring on a greater load of responsibility than the previous one. The result is a tax rate that every honest citizen regrets.

Your Committee at the outset started on a line of inquiry and investigation that, we are sure, will correct to some extent the evils we are satisfied exist at the present time.

Several visits to the Assessors' office, where are compiled the official records of valuations and abatements, brought to light a condition of affairs which warranted us in unanimously deciding to probe further. The City Treasurer was asked for a list containing certain information for the years 1900, 1901, 1902 and 1903, and, on authority of the City Solicitor, he declined to give the same. The City Solicitor informed your Committee that such a list could only come by a direct order of the City Council itself. Realizing that the welfare of the citizens of Lowell was at stake, we had an order prepared (and approved by City Solicitor William A. Hogan), calling on the Treasurer to give the list alluded to. This order was passed by the City Council by practically an unanimous vote, and your Committee was gratified at the manner in which it was received by the members of both branches. It is our intention to investigate matters contained in the list as soon as it is received.

A few figures will show the problem that confronted the Committee at the outset.

The total estimated revenue from all sources this year is \$1,310,123.04, a decrease of about \$9,000. from last year. In fact, the decrease is much greater than that, because this year's revenue includes the insurance money of \$60,000., which is not an ordinary revenue, but one due to the burning of Huntington Hall. For this reason your Committee did not feel justified in

devoting the \$60,000. to department appropriations, especially in view of the fact that the City may soon deem it wise, or perhaps obligatory, to rebuild Huntington Hall. For that reason the \$60,000. is allowed to remain in the General Treasury Fund, so that it will be available at any moment for a new hall. This plan we believe much preferable to devoting the \$60,000. to department needs and later being obliged to borrow for a hall if one is built. Therefore, our real shortage in revenue this year, compared to last year, is very close to \$70,000.

The department expenses in 1904 were about \$136,000. more than the previous year; yet, as above stated, revenues are growing less. The General Treasury Fund revenue, including Huntington Hall insurance money, is estimated for 1905 at \$452,489.70, which is over \$5,000. less than last year, and, if Huntington Hall insurance money is eliminated, as we believe it should be, the difference is over \$65,000. There seems to be a general decrease in revenues from first to last and but very few items show an increase.

The estimated revenue derived from taxation is nearly \$4,000. less than last year, and it follows of course that the real and personal valuation is somewhat lower, even though we fail to see why it should be.

At the beginning of the year 1904, the General Treasury Fund showed a balance of \$4,600.; January 1, 1903, there was a deficit of \$1,043.50; January 1, 1902, a balance of \$16,982.87, and January 1, 1901, a balance of \$8,000. On the first day of the present year the General Treasury Fund, instead of showing a balance, as it almost invariably has shown, at the beginning of

the year, showed a deficit of \$9,705.30. The greatest single decrease in the items making up the General Treasury Fund estimated revenue is on Corporation Tax, which dropped from nearly \$90,000.00 in 1904 to \$67,000. in 1905. There were other decreases, though not so large, and a few items show slight increases.

The total department estimates this year exceed by \$243,000. the total amount available, leaving out of course Huntington Hall insurance money, so it became necessary for your Committee to cut \$243,000., or nearly a quarter of a million. This was about \$8,000. more than it was necessary to cut last year. The total amount recommended for departments is \$64,000. less than last year.

We are pleased to call attention to the fact that fixed charges for 1905 are \$14,458. less than last year, and this is due to the fact that City Debt payments have decreased by \$7,958.60, Sinking Funds \$6,000., and Interest \$500.

Your Committee noticed that several heads of departments asked for increases in pay of clerks. These were undoubtedly worthy cases, and we regretted that we could not favor the increases asked. We took the position that the clerks have steady work the entire year, and that any spare money that might be found could with much better grace be added to the various appropriations for labor, remembering that the city laborer averages not more than three days' work a week, if he does that.

The Fire Department asked for an appropriation sufficiently large to allow the addition of 12 permanent men, and this was one demand your Committee could

not possibly ignore. The best we could do was to recommend an appropriation for seven additional permanent men, but we regret that we could not recommend more.

Among the places visited was the Health Department stable, and we were shocked to see some of the worn-out, diseased horses upon which the Department depends for its work. This is no reflection upon the management, for with the appropriations given from year to year an excellent showing has been made.

If the Agent of the Humane Society had been apprised of the condition of these animals, he would long ago have condemned at least six of them to death.

We have recommended an appropriation large enough to cover the cost of six new horses.

We desire to herein voice our disapproval of the method of conducting the City Library. This department, which, by a most unwise law, is a corporation entirely apart from the City of Lowell, was given an appropriation last year of \$16,000. This appropriation was exceeded by \$2,612.92., and an appropriation of \$18,500 was asked this year. The income from the Davis bequest amounts to about \$3,000 annually, and we believe an appropriation of \$13,000 with that amount, is sufficient for the present year. Acting under orders, the Librarian informed us that the Trustees did not believe in spending the Davis income for running expenses, but for "the making of a better library." We hope the Trustees will find that by using the Davis income for running expenses they will have "a better library" than if they depended on the City Council appropriation alone.

Your Committee visited the City Farm and found many repairs needed. An estimate was given by the Superintendent of Public Buildings, and, with few exceptions, we have been able to recommend something for every item he called absolutely necessary.

With the exception of the School Department, the appropriations recommended are, we believe, sufficient to last the entire year, and we would recommend the removal of any department head who, without good and sufficient cause, exceeds his appropriation. For the School Department we have recommended \$197,000. and we will be pleased to later recommend an additional \$74,000. This will make the whole appropriation \$271,000., and we believe that sufficient for the year.

Your Committee would earnestly recommend that a strict watchfulness be kept on the matter of loans during the current year. City Debt and Sinking Fund payments are on the decrease, and we can see some relief ahead if interest is kept down to the lowest possible figure and decreased substantially every year.

The total amount recommended for departments is \$1,244,606.13 and this will leave a balance of \$5,461.67 in the General Treasury Fund, besides the Huntington Hall insurance money.

Estimated Revenue, 1905.

Valuation real and personal property, 1904.....	\$71,614,907 00
Deduct abatements, 1904....	153,795 00
	<hr/>
	\$71,461,112 00
Multiply by \$12 per \$1,000 of valuation.....	12.00
	<hr/>
	\$857,533 34

ESTIMATED REVENUE BASED ON REVENUE FOR 1904

Incidentals	\$3,500 00
City Cemeteries	8,100 00
City Clerk.....	1,400 00
City Weigher.....	200 00
City Sealer	340 00
City Treasurer.....	3,000 00
Corporation Tax	67,000 00
Fire Department	150 00
Health Department	4,000 00
Inspector of Milk.....	125 00
Insurance Huntington Hall..	60,000 00
Liquor Licenses	172,000 00
Military Aid	}
Soldiers' Relief	
State Aid	
Park Department.....	1,000 00
Pauper Dept. (Almshouse)..	1,000 00
Pauper Dept.(Outdoor Relief)	5,000 00
Police Department	15,000 00
Public Buildings.....	2,500 00
School Department.....	6,000 00
Sewer Construction.....	17,000 00
Street Department.....	9,000 00
Watering Streets.....	18,000 00
Interest.....	25,000 00
National Bank Tax.....	8,750 00
Excise Tax	7,000 00

ESTIMATED REVENUE BASED ON REVENUE
FOR 1904

Armory Rent	1,200 00	
Street Railway Tax.....	8,000 00	
Lighting Department.....	30 00	
	<hr/>	
	\$462,295 00	
Less General Treasury Fund		
Deficiency 1905.....	9,705 30	
	<hr/>	
		\$ 452,589 70
Total Estimated Revenue for		
the year 1905.....		<hr/>
		\$1,310,123 04

Department Expenses for 1904 — Estimates for 1905 — Amount
Recommended by Committee on Appropriations.

	Department Expenses 1904	Department Estimates 1905	Committee Recommends 1905
Assessors.....	\$ 13,681 71	\$ 14,700 00	\$ 14,183 00
Auditor.....	3,967 84	4,086 00	3,957 00
Care of City Hall.....	7,231 50	7,198 25	7,198 25
City Cemeteries.....	8,971 63	11,000 00	9,000 00
City Clerk.....	5,691 03	6,528 00	5,691 00
City Treasurer.....	11,362 85	11,548 00	11,440 00
City Sealer.....	416 65	420 00	416 00
City Weigher.....	818 50	825 00	818 00
City Messenger.....	3,150 05	3,150 16	3,150 00
Clerk of Committees.....	1,340 85	1,400 00	1,400 00
Clerk of Common Council....	300 00	300 00	300 00
Elections	13,302 25	13,607 00	13,000 00
Engineering	15,033 45	7,500 00	7,300 00
Fire Department.....	135,780 00	144,313 75	138,988 00
Fish Warden.....	40 00	40 00	40 00
Health Department, Office....	11,756 26	11,923 00	11,456 00
Health Department, Yard	34,695 71	35,504 00	34,735 00
Heating C. H. & M. B.....	7,928 38	7,900 00	7,900 00
Huntington Hall.....	4,556 08	750 00	750 00
Incidentals.....	2,573 61	2,800 00	2,800 00
Insurance	5,287 77	2,461 64	2,461 64

	Department Expenses 1904	Department Estimates 1905	Committee Recommends 1905
Inspector of Milk and Vinegar.	2,344 87	2,405 25	2,355 25
Inspection of Animals and Provisions	500 00	500 00	500 00
Inspection of Wires.....	2,865 74	2,726 00	2,628 00
Law Department.....	5,542 25	5,624 00	5,538 00
Library	17,475 89	18,500 00	13,000 00
Liquor Licenses.....	42,974 00	43,000 00	43,000 00
Lighting Department.....	101,369 10	107,902 82	101,370 00
Mayor's Department.....	4,393 47	4,600 00	4,600 00
Park Department.....	13,095 85	16,200 00	13,544 00
Pauper Dept. (Almshouse)....	71,621 03	63,823 94	54,500 00
Pauper Dept. (Outdoor Relief).	53,107 01	49,631 00	43,533 00
Poundkeeper.....	5 00	5 00	5 00
Police Department.....	145,854 28	144,649 91	144,149 91
Public Buildings.....	29,869 17	38,170 50	26,370 50
Registrars of Voters.....	4,085 51	5,491 00	4,550 00
Rifle Range.....	990 81	1,000 00	700 00
School Department.....	299,532 79	306,000 00	197,000 00
School Houses.....	71,689 60	88,379 00	62,000 00
Sewer Maintenance.....	27,114 90	28,060 60	22,939 00
State Aid Department.....	30,046 68	30,500 00	30,020 00
Sewer Construction.....	115,989 42		
Street Department.....	216,482 71	221,417 75	173,500 00
Supply Department.....	6,367 21	6,510 44	6,319 58
Tax Cases	292 50		
Watering Streets.....	16,855 77	20,039 30	15,500 00
Water Works.....	181,298 24		
Totals.....	\$1,749,649 92	\$1,493,091 31	\$1,244,606 13

Summary of Anticipated Receipts and Appropriations, 1905

Amount which assessors are directed to raise

by taxation.....	\$1,291,900 00	
Revenue Estimated.....	452,589 70	
		\$1,744,489 70
Fixed Charges.....	434,421 90	
Appropriated for Departments.....	1,244,606 13	
		\$1,679,028 03
Balance left in General Treasury Fund.. . . .		65,461 67

Your Committee introduce the accompanying Joint Orders and recommend the adoption of the same.

Respectfully submitted,

THOMAS H. BRADEN, *Chairman.*

ALBERT F. GRANT,

DANIEL COSGROVE,

WILLIAM H. DODGE,

HARRY H. J. READ,

ANDREW McALOON,

CHARLES F. MORSE,

Committee on Appropriations.

CITY OF LOWELL.

In Board of Aldermen.

Order to Appropriate Money to meet Fixed Charges and Current Expenses.

Ordered, if the Common Council concur, That the following sums amounting to one million, six hundred seventy-nine thousand, twenty-eight dollars and three cents (\$1,679,028.03) be and they are hereby appropriated to meet the Fixed Charges and Current Expenses of the City of Lowell for the year beginning January 1, 1905, and ending December 31, 1905.

Assessors.

Salaries.....	\$12,535 00	
Sundries.....	1,648 00	
	<hr/>	\$14,183 00

Auditor.

Salaries.....	3,516 00	
Sundries.....	441 00	
	<hr/>	3,957 00

Care of City Hall.

Labor.....	5,294 50	
Police Officer.....	1,003 75	
Sundries.....	900 00	
	<hr/>	7,198 25

City Cemeteries

9,000 00

City Clerk.

Salaries.....	4,628 00	
Sundries.....	1,063 00	
	<hr/>	5,691 00

City Treasurer.

Salaries.....	7,340 00	
Sundries.....	4,100 00	
	<hr/>	11,440 00

City Sealer.

Salary.....	350 00	
Sundries.....	66 00	
	<hr/>	416 00

City Weigher.

Salary.....	800 00	
Sundries.....	18 00	
	<hr/>	818 00

City Messenger.

Salary.....	1,200 00	
Sundries.....	400 00	
Lighting City Hall and Memorial Building.	1,550 00	
	<hr/>	3,150 00

Clerk of Committees.

Salary.....	1,200 00	
Sundries.....	200 00	
	<hr/>	1,400 00

Clerk of Common Council.....	300 00
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Elections.....	13,000 00
(Principal Election Officers \$8 per day, Deputies \$1 per day.)	

Engineering.....	7,300 00
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Fire Department.

Salaries and labor.....	111,338 00	
Sundries....	24,450 00	
Repairs No. 4 and 6 Engines.....	3,200 00	
	<hr/>	138,988 00

Fish Warden.....	40 00
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Pound Keeper.....	5 00
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Health Department. Office.

Salaries and labor.....	9,135 00	
Sundries.....	2,321 00	
	<hr/>	11,456 00

Health Department. Yard.

Labor.....	28,637 00	
Sundries.....	6,098 00	
	<hr/>	34,735 00

Heating City Hall and Memorial Building.

Labor.....	3,000 00	
Fuel.	4,300 00	
Sundries.....	600 00	
	<hr/>	7,900 00

Huntington Hall.....	750 00
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Rifle Range.....	700 00
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Incidentals.....	2,800 00
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Insurance.....		2,461 64
Milk and Vinegar.		
Salaries.....	2,205 25	
Sundries.....	150 00	
	<hr/>	2,355 25
Inspector of Animals and Provisions....		500 00
Inspector of Wires.		
Salaries.....	2,226 00	
Sundries	402 00	
	<hr/>	2,628 00
Law Department.		
Salaries.....	4,824 00	
Sundries.....	714 00	
	<hr/>	5,538 00
Library.....		13,000 00
Lighting Department.		
Lighting Streets.....	100,195 00	
Lighting Public Buildings.....	21 00	
Labor sundries.....	1,154 00	
	<hr/>	101,370 00
Liquor Licenses.....		43,000 00
Mayor.		
Salaries.....	4,200 00	
Sundries.....	400 00	
	<hr/>	4,600 00
Park Department.		
Salaries and labor....	9,000 00	
Sundries.....	3,544 00	
Care of trees.....	1,000 00	
	<hr/>	13,544 00
Paupers (Almshouse).		
Salaries.....	2,700 00	
Labor.....	10,000 00	
Grain, groceries and provisions.....	23,000 00	
Sundries.....	18,800 00	
	<hr/>	54,500 00
Paupers (Outdoor relief).		
Salaries.....	3,785 00	
Office sundries and transportation.....	700 00	
General sundries.....	39,048 00	
	<hr/>	43,533 00
Police Department.		
Salaries of Police Board and Clerk....	5,000 00	
Salaries and labor, Police Department....	133,149 91	
Sundries.....	6,000 00	
	<hr/>	144,149 91

Public Buildings Department.

Salaries.....	2,736 00
Labor, carpenters, painters, etc.....	8,239 00
Janitor, Police Station.....	912 50
Asst. Janitor, Police Station.....	477 00
Janitor, Memorial Hall.....	702 00
Sundries, board of horses.....	1,305 00
Electric power.....	254 00
Work not done by Department.....	4,500 00
Materials.....	3,800 00
Painting City Hall.....	1,000 00
Repairing Palmer Street engine house.....	1,000 00

City Farm Repairs.

12 double windows hung in female hospital.	240 00	
16 new windows in male dining room.....	160 00	
New sheathing door from barn yard to hospital yard.....	10 00	
New floor in cow stable.....	300 00	
Refrigerator repairs.....	250 00	
2 new doors....	20 00	
Electric wiring.....	250 00	
Screens for hospitals.....	115 00	
Taking gratings from female hospital.....	100 00	
	<hr/>	26,370 50

Registrars of Voters.

Salaries and labor.....	3,850 00	
Sundries.....	700 00	
	<hr/>	4,550 00

Schools..... 197,000 00

School Houses..... 62,000 00

Sewer Maintenance.

Salaries.....	2,939 00	
Labor....	12,000 00	
Sundries.....	8,000 00	
	<hr/>	22,939 00

State Aid.

Salaries and sundries....	2,020 00	
Military Aid.....	4,000 00	
Soldiers' Relief.....	9,000 00	
State Aid.....	15,000 00	
	<hr/>	30,020 00

Streets.

Salaries.....	4,000 00	
Yard labor.....	11,000 00	
Care of streets.....	100,000 00	
New sidewalks.....	7,500 00	
Sidewalk repairs.....	4,000 00	
Sundries.....	47,000 00	
	<hr/>	173,500 00

Supply Department.

Salaries and labor.....	5,444 58	
Sundries.....	875 00	
	<hr/>	6,319 58

Watering Streets.

Labor.....	5,000 00	
Sundries.....	10,500 00	
	<hr/>	15,500 00

Department total..... \$1,244,606 13

FIXED CHARGES.

City Debt.....	\$267,621 90	
Interest.....	134,500 00	
Sinking Funds.....	32,300 00	
	<hr/>	434,421 90
Total		\$1,679,028 03

LIMIT OF INDEBTEDNESS.

Limit of municipal debt for 1905, 2½ % on \$71,601,535 67 (average valuation for last three years)		\$1,790,038 40
Total city debt, Dec. 31, 1904.....	\$3,479,680 00	
Deduct Water Loans.....	\$1,162,300 00	
Deduct exemptions by Legislature	800,000 00	
	<hr/>	1,962,300 00
City Debt as it relates to limit of indebtedness.....		\$1,517,380 00
Distance from limit, Jan. 1, 1905..		\$272,658 40

FIXED CHARGES.

	1904	1905	Decrease
City Debt.....	\$275,580 50	\$267,621 90	\$7,958 60
Interest.....	135,000 00	134,500 00	500 00
Sinking Funds.....	38,300 00	32,300 00	6,000 00
	<hr/>	<hr/>	<hr/>
	\$448,880 50	\$434,421 90	\$14,458 60

CITY OF LOWELL.

In Board of Aldermen.

Order relating to Report of Committee on Appropriations.

Ordered, if the Common Council concur, That a sufficient number of copies of the report of the Committee on Appropriations be printed for, and that they be included in, the published volumes of the Lowell City Documents for the year 1905, the expense of the printing to be charged to the Appropriation for Incidentals.

CITY OF LOWELL.

In Board of Aldermen.

Order to Assess Taxes for the year Nineteen Hundred and Five.

Ordered, if the Common Council concur:

First.—That the Board of Assessors of the City of Lowell be, and they are hereby instructed to raise the sum of One Million, Two Hundred Ninety-one Thousand, Nine Hundred Dollars (\$1,291,900.00) by assessment upon Polls and Estates of the Inhabitants of the City of Lowell, and Estates of Non-Resident Proprietors, according to law, to defray the current expenses of the City for the financial year beginning January 1, 1905, and ending December 31, 1905.

Second.—That interest at the rate of six per centum per annum shall be charged on all taxes under this order which remain unpaid on and after the twentieth day of October, 1905, until the same shall be paid, and such interest shall be added to and be considered a part of said Taxes.

Third.—That a copy of this Order shall be furnished to the Board of Assessors by the City Clerk within ten days after the approval of the same.

Annual Report
OF THE
Overseers of the Poor
FOR THE
City of Lowell
With Accompanying Papers
For Municipal Year
1904



LOWELL, MASS.



BUCKLAND PRINTING COMPANY

1905

Overseers of Poor

1904

MARTIN F. CONLEY

Chairman

EDWARD H. FOYE
WILLIAM J. DUNN
JOHN F. McCOY
JOHN J. DUFF

EDWIN S. EASTMAN
VITAL ROBERTS
CHAS. E. TILTON
P. J. McDERMOTT

Secretary and Superintendent of Outdoor Poor

MARTIN J. COURTNEY - - - - City Hall

Hours 9 A. M. to 4 P. M.

Superintendent of City Hospital and Almshouse

DR. CHARLES E. DONLAN - - - Almshouse

Officials and Employees of the Department

Secretary's Office

CLERKS

NELLIE A. KEYES

WILLIAM H. GALLAGHER

City Dispensary

EDWIN F. MASON - - - - Pharmacist

City Hall, Hours 9.30 A. M. to 1 P. M., 2.30 to 5 P. M.

Ambulance Physician

DR. PATRICK E. SULLIVAN - - Associate Building

City Physician

DR. FORSTER H. SMITH - 805 Merrimack Street

Dispensary Physicians

District One	DR. T. HALLORAN	4 Runels Building
“ Two	DR. A. J. HALPIN	Swan Building
“ Three	DR. J. BOYLE	Wamesit St.
“ Four	DR. O. P. PORTER	253 Central St.
“ Five	DR. J. E. LEARY	Associate Building
“ Six	DR. P. BRUNELLE	35 E. Merrim'k St.

A physician will be in attendance at the City Dispensary, City Hall, every day, except Sundays and Holidays, from 11 a. m. to 12 m. Patients unable to get to the Dispensary will be treated at their homes on a line from Secretary's Office.

Lowell City Hospital and Almshouse

CHELMSFORD STREET

DR. CHARLES E. DONLAN	. . . . .	Superintendent
JOHN J. MAHONEY	. . . . .	Clerk

Committees—Overseers of Poor, 1904

ACCOUNTS—Conley, McCoy and Dunn.
REPAIRS—Conley, McCoy and Foye.
AGRICULTURE—McDermott, Dunn and Tilton.
CLOTHING—Duff, Roberts and Conley.
DISPENSARY—Foye, McCoy and Duff.
PRINTING—Duff, Conley and Eastman.
OUT DOOR RELIEF—McDermott, Foye and McCoy.
PROVISIONS AND SUPPLIES—Duff, Tilton and Foye.
WOOD YARD—Dunn, Conley and Roberts.
INSURANCE—Foye, Duff and Tilton.

Office of the Overseers of the Poor,
City Hall, January 5, 1905.

*To His Honor the Mayor, and the Honorables, the Members
of the City Council, Lowell, Mass.*

GENTLEMEN:—In accordance with the provisions of the City Charter, I herewith present the following as the report of the Overseers of the Poor department for the fiscal year 1904.

MARTIN F. CONLEY, *Chairman,*
For the Overseers of Poor.

REPORT OF THE SECRETARY
OF THE
OVERSEERS OF THE POOR

*To the Board of Overseers of the Poor,
Lowell, Mass.*

GENTLEMEN : —

In compliance with the rules of your board I herewith present my annual report as Supt. of Out Door Poor for the year 1904. In some respects the year was a memorable one, inasmuch as it marked the beginning of two distinct changes in the laws governing the workings of this department, namely, the removal of our control and supervision from all insane cases and the discontinuance of the Workhouse at the City Institutions. The first mentioned law, placing all insane under State control, was passed in 1900 and became operative January 1, 1904 and the other was passed by last year's legislature and became operative October 1, 1904. In the other branches of the department 1904 can be taken as a normal year and the expenditures represent a fair average under our present system of doing business.

As the department seems to be very much in the public

eye at present and criticism and censure appear to be the only offerings due us, I have decided to go into a little more detail than usual so that a more intelligent idea of our expenses can be had and a better idea of our work can be formed. That the amount yearly expended can be greatly reduced without entailing any suffering I do not deny and I have repeatedly called this fact to your attention. But that we merit all the unkind things said about us I do deny and claim that we are like every other pauper department in the state, striving for the minimum in expenditures. However, the millennium has not yet been reached and the minimum is still far in the small end of the perspective.

In Memoriam

At the outset of the year the department sustained a severe loss in the death of James F. Walsh, the chief clerk in the office. For twenty years he occupied that position and the excellence of the records he leaves behind serve as a monument to testify to his great efficiency. He was a man of sterling qualities and of much natural ability; to these were added a good education, a thorough knowledge of his work and a familiarity with the geneology of Lowell's poor such as no man among us can hope to posses. He was conscientious in his dealings with all and the essence of loyalty to his official superiors. In his death the city lost a servant whose place can never be entirely filled. While mourning the occasion I gratefully embrace this opportunity to pay a well deserved tribute to one, whose existence and endeavors are now but fading memories but whose life's work will always live in the annals of this department and shine out on the pages of its history with a brilliancy that proclaims its work well and faithfully done.

The Office

The volume of business transacted in the office is enormous and is constantly on the increase. The amount of detail work necessary to comply with the pauper laws and to ensure complete records, takes considerable time, not to speak of the great number of people constantly in attendance whose wants have to be listened to. It is safe to say that there is not a busier office in the building than ours nor is there another to which more people come in the course of a year. The work is of a complicated, intricate character and any neglect of it is followed by great expense to the city. It is work that won't wait and must be kept up. The following figures will serve to give you an idea of some of the work accomplished last year.

The number of notices sent to other cities and towns by us, claiming settlements for persons found in this city was 119. Of this number 56 were renewal of notices on acknowledged cases and 63 were for new cases. Of the last number 47 settlements were admitted and 16 denied. The number of notices received by us, claiming settlements in this city for people found in other places throughout the state was 154. Of this number 38 were renewals on people we had already found to have settlements here, 66 new claims were acknowledged and 50 were denied. The number of state notices from state institutions was 104. Of this number 45 claims were denied. The number of state notices sent can be estimated by the number of state cases aided during the year in the table to be found appended. The number of official letters written during the year was 268.

During the year 314 people have been sent out of the city by us at a cost of \$389.26. The places to which they were sent were Tewksbury, Boston, Chicopee, Beverly, Fall River, Framingham, Rutland, Holyoke, and New Bedford in Mass. ; St. Gabrielle,

Sherbrooke, Nicolet, Vercheres, and Montreal, P. Q.; Plymouth and Manchester, N. H.; Togus and Readfield, Me.; Providence, R. I.; Philadelphia, Pa.; Queenstown, Ire. We have moved back to this city 34 Lowell paupers found elsewhere in the state.

The number of histories taken during the year was 414. This means the addition of over 1000 names at least to the pauper rolls. The total number of histories catalogued is 7,192.

The number of orders for provisions given on the Almshouse department was 4,312. Of this number 4,300 were \$2.00 orders and 12 for \$3.00 orders, making the total cost \$8,636.00. The number of fuel orders given was 4,538. Of this number 1,827 were for wood and coal jointly and the balance for wood only. The amount of wood and coal used can be found in the appended table.

The amount expended on orders on stores jumped to the highest figure it has ever reached, being 887 orders. The amount thus expended is \$2,757.89, being \$795.05 higher than in 1903 and \$917.48 more than the year previous. These orders on stores have always caused more unfavorable comment than any other form of aid. For years they have been a bone of contention and only those directly benefitted favor this form of aid. For years I have advocated the establishment of a city store from which every order given by us shall be delivered. The showing of the past year in dispensing \$11,393.89 worth of provisions only goes to show the absolute necessity for such a store. Last year the matter was brought before the committee on appropriations and received their unanimous approval. We had prepared plans and estimates of cost for building the store, to be located on the board's lot at the corner of Broadway and Fletcher St. The cost would be inconsiderate compared with the savings that would accrue to the city. The favorable recommendation of the committee on appropriation passed both branches of the City Council and went to the Mayor for his approval. At the expiration of eight days he sent it back to the City Council with the following communication :

LOWELL, MASS., March 4th, 1904.

To the City Council:

GENTLEMEN :— I have returned this day to the City Council a Joint Order presented to me for approval March 3, entitled an "Order to Appropriate money to meet fixed charges and current expenses." I have approved the items of the order except the item "Building store and wood yard \$2,000.00" under the head of "Paupers" (Outdoor Relief). This item I disapprove.

I do not believe it is wise nor will it prove to be economical for the city to establish a municipal store and woodyard for the benefit of the poor who receive relief at their homes. The experiment of maintaining a municipal woodyard has already been tried and abandoned as costly and unsatisfactory. In my opinion the sum of \$2,000.00 is not sufficient to erect and fit up buildings for the proposed purposes. This expenditure would be only the beginning of a large expense. The change that is contemplated in the method of disbursing out door relief means that the city will have to pay a considerable sum yearly for work that it now gets for nothing or in part recompense for support and aid given at the Almshouse. I do not believe that either in the method of purchasing pauper supplies, their handling or delivery, the city will be a gainer by the adoption of the proposed change.

There is a kind of pauperism, the result of sloth, shiftlessness and dissipation, which fastens itself unblushingly upon the municipality and arrogantly demands support. Let us not contribute to the increase of such pauperism, the expense of which is already a heavy burden, by making it attractive, through a strained effort to have the facilities for its relief unduly easy.

Respectfully submitted,

CHARLES E. HOWE, Mayor.

This communication was first laid on the table for a week at the end of which time a committee of three aldermen were appointed to look up the matter and report back. This committee has never reported, so the matter stayed on the table until the expiration of the year.

I never believed that the reasons given by the Mayor were all that prompted his action in this matter. I have an idea that the objections of a number of tradesmen, who would lose a few dollars every year by the change, had considerable to do with influencing his mind.

However that may be the opinion of those, supposedly to be as anxious for the city's welfare as any other, and by experience best qualified to know the needs of the department, were unheeded and the matter was allowed to drop. I have no hesitation in saying that to my mind the city store idea is the very best the city can adopt. It has been tried elsewhere and has always given satisfaction. The very reasons the Mayor gives for refusing to approve the measure are the ones to my mind which commend its passage. The amount asked for would have been sufficient to meet the expense of fitting up the building according to the estimate of the foreman of the lands and buildings department. The expenditures would be final and the amount the city would be called upon to pay for the work now being done for nothing by almshouse inmates would be more than made up by the saving in the profits of the grocers, who supply the orders on stores, and the lessening of the aid given. That undesirable class of paupers referred to are shielded much more under the present system than by the one proposed. With the city store we not only are in closer touch with them but we know just what they get. All recipients get what they need and the amount of goods wasted yearly would be reduced to absolutely nothing. That is to say that in the \$2.00 orders from the almshouse, we put up a regular order of staple

necessities, all of which are not acceptable to every person. The result is that a large amount of goods are yearly wasted by not being used by the recipient. In the doing away with orders on stores the room for improvement is manifest. That the entire yearly output of the department would be very materially reduced by the city store system I am confidently sure, and I regret the failure of its adoption last year.

I would counsel the board to recommend orders on stores for customers only in extreme cases. This form of aid is so simple and is so easy that the liability of its abuse is always present. No other form of aid adds so much to the yearly increase in business. Only in cases of sickness and extreme old age should orders on stores be given and to all others should go the regular order from the almshouse. In fact I would do away with orders on stores altogether, as I know that this method of giving aid attracts more paupers, who want more and stay longer and more continually on the rolls, than are attracted by delivering the goods ourselves. An overseer is not always doing a good turn for a family by getting them pauperized. In many instances it is the worst possible thing he could do for them. Especially is that so when the getting of the aid is made easy, agreeable and inviting.

Cash Allowances

The amount of cash expended last year amounted to \$4,573.03. Of this amount \$1,500.04 went for the care of childrens in families and the balance \$3,072.99 for the support of aged and infirm people. Besides the 40 children who shared in its benefits, 38 adults were supported. Among pauper authorities the giving of cash is not approved. I think that it is advisable in some cases, but am not in accord with the generous policy towards which we are drifting. On that account I have always refused to take upon myself the responsibility of adding any name to the cash allowance

list, preferring to refer all such to the entire board. I would suggest that your present list be revised as soon as possible and that great care be exercised in adding thereto.

The Ambulance Department

The cost of maintaining the ambulance service last year was \$6,776.85 of which \$4,547.16 was for salaries of drivers, \$600, salary of ambulance physician and \$1,029.69 for care of horses, wagons, harnesses and all incidentals. The calls for the year were as follows : —

Whole number of calls	1,149
Accident cases	322
Sick cases	758
Called and not used	67
Second alarm of fire	2

The cost of this branch of the department was very materially increased by the addition of two extra drivers last year, making the total number six. The amount expended is the largest ever reached in this city and I have my doubts as to whether any other city ever expended as much for similar service.

City Dispensary and District Physicians

The care and consideration Lowell shows her sick poor, outside of hospitals, cannot be excelled by any other municipality in the country. Our city dispensary is a credit to our department and merits the high place it takes in the public mind. Our district doctors are called upon to perform a great amount of work in a year, as an examination of the appended tables will show. During the year the expenses of the dispensary were \$2,240.04 of which

\$1,046.67 was for salary of the dispensary clerk and \$1,193.37 for medicines and supplies. The total number of prescriptions compounded and given out during the year was 9,924. The tabulated card system introduced two years ago is still in use and 1,146 new cards were added during the year. The comparatively small amount expended for medicines and supplies is very gratifying when you take into consideration the large number of prescriptions given out.

The only draw back to the city dispensary is the abuse of its privileges by those who can afford to go elsewhere. It is intended for, and should be used by the poor only, by those who cannot afford to get medical advice and medicine elsewhere. The prosperous appearance of many who get treatment there leads me to believe that more rigorous rules should be made for applicants. A history of each should be taken and a more searching inquiry as to the means of all should be made.

Another departure I believe would increase the efficiency of the dispensary service would be in a change in the method of the attendance of physicians. At present each district doctor is on service for one hour on the same day in every week throughout the year. Patients may come to him and be treated, and before the end of the week go to some other member of the staff. In this way the doctor cannot follow the case as intelligently as he would like to and the amount of medicine given away is materially increased. I would suggest that each physician put in his hour per day at the dispensary, every day, for two months, after which his attendance there ceases for the year. In other words, instead of being in attendance one day a week throughout the year, each physician puts in two months in succession. In this way I believe the welfare of the patients will be enhanced and the cost of the dispensary will be decreased. A more intelligent comprehension of the patients will surely result.

District Physicians

The amount expended on district physicians last year was \$1,549.47, of which \$1,200.00 was for the regular salary of the six — \$200 per year, each — and \$349.47 for treatment of patients having settlements in other cities or towns throughout the state. The last amount will be reimbursed. The total number of cases treated by the six physicians was 4,066, of which 676 patients were treated in their homes and 3,390 were treated at the dispensary. This large number of cases serves to give you an idea of the importance of this work. It is certainly creditable to last year's dispensary staff to mention the fact that not a single complaint of inattention to duty was ever made against any of them. This is as it should be, as those to whom a doctor is called by this department are dependent on him for treatment. Their financial condition prevents them from getting medical advice elsewhere, and the member of the dispensary staff who neglects his calls is liable to be held accountable for a great wrong. It should be the effort of the board to get the best physicians obtainable and make as few changes as possible when the staff is working well. A physician who knows his patients can render better service than those who do not. In the event of changes I would like to request the members of the board to impress upon the minds of those elected, the importance of the place and the absolute necessity of strict attention to the duties thereof.

Burials

The total number of burials by this department during the year 1904 was 116, divided as follows: Adults 53, children 49, still born children 11, foundlings 3. The total cost including coffins and services of undertakers was \$615.38.

City and Town Cases

The total cost of supporting Lowell's poor in other places was \$3,779.19. This amount included some old bills which had come over from preceding years, principally on account of disputes on questions of settlement.

Children

The total number of children who have been under the care of the department during the year was 199, of this number 88 were cared for at the city farm temporarily, 40 in orphan asylums, 50 in private families and the balance was placed in permanent homes where the cost of their future maintenance will not be borne by the city. The total cost of maintaining those outside of the almshouse was \$5,790.95. This amount includes \$1,180.93 paid the commonwealth for the board of six children at the Massachusetts School for Feeble Minded. The amount paid to orphan asylums was \$2,380.65, and the number of children thus cared for was 42, of which 39 remain January 1, 1905. In private families, 40 children were cared for at a cost of \$1,775.04 and of this number 29 remain. Eleven children were sent to relatives, four going to Maine, three to Canada and two to Connecticut.

The amount annually spent for the care of children could probably be greatly reduced by doing as some other cities in the state do, namely, turn over to the state all children who come under their care. This, to my mind, is not fair or equitable. I never could believe that the people of this city would favor any such method in order to escape that cost which should rightfully be borne by them. Misfortune and crime bring the greater number of children to us, and to separate all from their kindred is not only unjust but is inhuman. In the case of neglected children some body must bear the burden of their support and when there

are none of kin to do so, I believe the city to which the children belong should take up the burden.

Sick Poor in Local Hospitals

The amount paid for the support of the sick in local hospitals aggregated \$2,477.07. Of this amount \$2,160.71 was paid to St. John's Hospital and \$316.36 to the Lowell Hospital Association. Of the amount paid to St. John's Hospital, \$1,315.00 was for the support of Lowell cases and \$845.71 for support of state, city and town cases. Of the amount paid Corporation Hospital, \$147.43 was for support of Lowell cases and the balance, \$168.93, went for support of state, city and town cases. As reimbursements are received from state, city and town cases, the total net cost to the city for caring for 135 city patients during the year was \$1,462.34. This amount is less than has been paid for many years.

Wood Yard

During the month of February we moved the wood yard from the farm to the old location at the ambulance yard. We purchased a saw table for \$40.00 and have rented an electric motor for \$5.00 per month. We paid the lands and buildings department \$186.10 for alterations in the barn to accommodate two more horses. The cost of wiring the motor was borne by us and amounted to \$28 31. The entire cost of the wood yard, including \$1,311.00 worth of wood and coal from the farm, pay of two men, \$2,639.52 worth of wood and coal from local dealers, and all other expenses was \$5,255.88. There has been no additional help added or required. The two drivers always required do all of the work, assisted by able bodied applicants for aid from this office. This branch of the department is economically run and

while conducted on the lines it is at present, will never be discontinued. The drivers are paid \$12.00 per week, and the job is not a political sinecure. The advantage of having the fuel supply in the middle of the city can be readily seen, and the great pity is that we have not the depot for all the supplies there. The motor put in last year should be bought, as it is working well and gives great satisfaction.

Removal of Insane

On January 1, 1904, the law relative to the state care of the insane went into effect, and the State Board of Insanity started their work of removing all insane patients from local almshouses throughout the state. At that time we had 111 insane at the almshouse, of which 82 were women and 29 men. Lowell was the first city visited by the State Board, and the work of transferring began. It was decided in cases of old people, who had been in our Almshouse for a number of years and whose condition was such as not to require any treatment other than is customarily given to Almshouse inmates, that such be allowed to remain with us. As a result of this decision 20 women and 8 men were left here. Of the others, 10 were discharged; three died and the others were transferred as follows: to Worcester Insane Hospital, 33; to State Hospital at Tewksbury, 31; to Medfield Asylum, 3; to Danvers Insane Hospital, 3.

I have never been favorably impressed with the new insane law, and am of opinion that it owes its place on the statute books more to the prevalence of sentimentality than to the exercise of common sense. I believe that chronic insane patients are much better off in their local almshouses than in state asylums. But little can be done for them in either place, except supplying them with the necessities for living. When at home, they are among scenes and people who are familiar, and are cared for by those

who knew them when they were well. A person committed for insanity now is under the supervision of those who are strangers to him and his individuality is lost. There is no connecting link between where he is and where he came from. His relatives and friends are put to considerable expense to visit him and, as time goes on, he becomes more and more apart from his former life until he is finally one insignificant case among thousands of similar cases. In my ten years experience with insane patients in state hospitals and asylums, I have never yet found an insane person from this city who did not hail with joy the proposition to remove him, or her, to our Almshouse.

The Workhouse

For many years, the laws of this state have permitted cities and towns to maintain workhouses, and on February 26th, 1850, the City Council passed a resolution to the effect that the almshouse be deemed and declared to be established as the workhouse of the City of Lowell. After a few years opposition to this arose and on the 22nd of November, 1859, the workhouse was voted to be discontinued. The growing necessities of the times for such an institution were too great and on the 9th of July, 1872, it was re-opened. It has been in continuous existence ever since until last October. Its closing at the present time is due to the passage of a law by last year's legislature, making it a criminal offence, punishable with a heavy fine, to keep in the same institution, workhouse and pauper inmates, without a complete separation of both. As the facilities in our institution don't admit of this separation the only course left was to release all who were serving sentences there at the time the law became operative. As a consequence 44 were discharged on the last day of September.

This law prohibiting any association between prisoner and pauper sounds well, but, as a matter of fact, as far as our institu-

tion ts concerned, it is but a splitting of fine hairs. Fully ninety per cent of those who went there as prisoners have been there as paupers and the change of title is the only bar to their going there at present. Of the 44 prisoners released in September last, many of them went in to the almshouse immediately. Fully one-half of the 44 were re-arrested before the following Monday and were sent to the state farm or jail. Drunkenness was the besetting sin for which offenders were sent to the workhouse. This is becoming to be regarded more of a weakness than a crime and on this account, there are many who consider the sending to jail of such offenders too great a penalty.

Much as I would like to do so, I am not ready to say that the discontinuance of the workhouse was a wise movement. I am inclined to the opinion that the public needs of the near future will demand that it be once more established. This could readily be done by the use of some money. If the necessities for such an institution are not too pressing this department would be better off without. The time the law has been in force is too short to form an intelligent opinion of its workings and all that can be done is to wait and see if any hardships are imposed by its workings.

In Conclusion

Relative to the proposed legislation to abolish the present board of Overseer of the Poor and create a board of charities, to be appointed by the Mayor, I do not consider it my place to express herein any opinion on the matter. I am a servant of the board, to do its bidding in all things appertaining to the work of this department and to flaunt my opinions in a public document in matters of this kind, strikes me as the personification of impropriety. I would not mention the matter at all but for the feeling I have that the evils of the present system, which are said to—and do exist, are laid to the members of the Overseers when in reality they don't belong there. “Too much politics” is said—

and rightfully said too — to be the bane of the Overseers. There is not a man on this board, nor any who have been members in years past, who is not well aware of the truth of this assertion. We all know the injury to the department the introduction of politics makes and realize that the welfare, and very existence of too many people are too closely allied to it to have its workings buffeted around by the changing wants of successive successful politicians. But the presence of this evil does not rest with the overseers but with those to whom the members owe the fact that they are overseers, namely the voters. Each political party puts a premium on playing politics in this board by the rule they both make relative to the eligibility of a citizen to contest for the office. The democratic party levies an assessment of \$25.00 on candidates while the republican party has just reduced their old figure of \$40 00 to an assessment of \$30.00 Why should any assessment be made to allow a man to become an overseer of the poor? The duties of the position performed according to the oath each man takes on assuming the office, are not such as are pleasing to any man. In point of fact the duties, faithfully performed, are very liable to be disagreeable ones. Why should any candidate be compelled, not only to pay an assessment, but to go out and hustle among the voters to occupy a position, the duties of which should be labors of loyalty to the city, love to the unfortunate and sacrifice to his own personal feelings? A man should receive the praise of his fellow citizens for serving as an overseer of the poor instead of being compelled, as he is now, to assume the burden of proof in his contention that he is an honorable man.

In conclusion I have to thank the members of the board and officials and employees of the department for their uniform kindness towards me, and recommend to your careful perusal the subjoined tables.

Respectfully submitted,

M. J. COURTNY, *Secretary.*

NUMBER OF FAMILIES AIDED IN 1904.

	No. Families	Males	Females	Total
Lowell Cases.	573	910	1270	2180
City and Town Cases.	67	96	119	215
State Cases.	170	315	280	595
Total.	810	1321	1669	2990

NUMBER OF HISTORIES OF NEW CASES TAKEN
DURING 1904.

January	36
February	35
March	41
April.....	29
May.....	21
June	29
July.....	41
August	24
September	36
October.....	31
November	35
December.....	56
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Total.....	414

AMOUNTS PAID FOR LOWELL'S DEPENDENT CHILDREN,
OUTSIDE OF ALMSHOUSE.

IN INSTITUTIONS.

INSTITUTION.	Rate Per Week.	Amount Paid.	Number During 1904.	Remaining Jan. 1, 1905.
St. Peter's Orphan Asylum.....	\$1 50	\$1,613 00	28	26
Lawrence Orphan Asylum.....	1 50	517 15	10	10
Salem Orphan Asylum.....	1 50	135 50	2	2
Working Boys Home, Boston	2 00	120 00	2	1
Perkins Institute, Boston.....	....	59 99	1	1
Cottage Hospital, Baldwinville.....	3 25	339 84	1	1
Childrens Hospital, Boston... ..	4 00	49 50	2	..
Mass. School for Feeble Minded.....	3 25	1,180 93	6	5
Total.		\$4,015 91	52	46

AMOUNTS PAID FOR LOWELL'S DEPENDENT CHILDREN, OUTSIDE OF ALMSHOUSE.

IN PRIVATE FAMILIES.

	Rate Per Week.	Amount Paid	Number During 1904	Remaining Jan. 1, 1905
Delia Jones, Lowell	\$ 2 00	\$104 59	1	1
Mary J. Allen.....	2 00	178 03	2	1
Louise Denault.....	1 75	92 50	1	1
Susan C. Burt, Tewksbury.....	1 75	76 50	2	0
Nellie Barker, Lowell.....	1 75	23 75	1	1
Emily O'Neil.....	1 50	156 82	3	3
Margaret Welch.....	1 50	78 41	1	1
Mary J. Burns.....	1 50	91 48	2	2
Ellen Cunningham	1 50	105 03	3	3
Rose Dunham.....	1 50	45 00	1	0
Mrs. John Mollahan.....	1 50	19 93	3	0
Fannie White, Ballardvale.....	1 50	275 00	4	0
	per month			
Robert Montgomery, Lowell.....	10 00	120 00	3	3
Jennie Aham.....	7 00	84 00	2	2
Ellen Tully	7 00	84 00	3	3
Patrick Murphy.....	8 00	96 00	2	2
Charles McDermott.....	5 00	60 00	1	1
James McArdle.....	7 00	84 00	5	5
Total.....		\$1,775 04	40	29

AMOUNTS PAID CITIES AND TOWNS
On Account of Lowell's Paupers Residing Therein.

CITIES.		TOWNS.	
Beverly	\$110 60	Andover	\$ 57 45
Boston	264 45	Avon	207 50
Cambridge	3 50	Blackstone	60 00
Chelsea	8 50	Billerica	46 00
Fall River	74 40	Chelmsford ...	331 69
Lawrence	583 70	Clinton	84 26
Haverhill	105 65	Salisbury	22 00
Holyoke	98 05	Sturbridge	81 25
Lynn	152 58	Tewksbury	245 11
Newburyport	240 85	Watertown	80 75
New Bedford	64 55		
North Adams	43 30		
Malden	16 00		
Salem	536 54		
Somerville	38 05		
Springfield	27 52		
Worcester	113 96		
Woburn	40 26		
	<hr/>		<hr/>
	\$2,522 46		\$1,216 01

Total Amount Expended, \$3,738.47

AMOUNTS RECEIVED FROM CITIES AND TOWNS
For Aid Rendered in This City.

CITIES.		TOWNS.	
Brockton	\$ 75 75	Amesbury.....	\$ 87 00
Boston	146 60	Billerica	31 97
Chicopee	19 50	Concord	39 50
Fall River	27 75	Dracut	13 25
Haverhill	34 00	Chelmsford	108 75
Holyoke.....	6 50	Boxborough.....	3 00
Fitchburg	34 25	Maynard.....	129 00
Lynn	38 35	Oakdale	1 00
Lawrence.....	126 00	Framingham.....	26 00
Marlborough.....	83 00	Ipswich	36 75
Newburyport.....	84 00	Palmer.....	87 75
Waltham	8 90	Amherst.....	32 00
Woburn	40 50	Hardwick.....	3 00
		Wilbraham.....	44 00
		Stoneham	104 58
		Stoughton..	15 75
		Tewksbury....	313 40
		Ware.....	91 75
		Webster	1 60
		Westford	7 50
		Winchester	68 50
		West Brookfield..	13 50
		Watertown	28 50
	<hr/>		<hr/>
	\$725 10		\$1,288 05

Total Amount Received, \$2,013.15

HOUSE CALLS BY DISTRICT DOCTORS FOR 1904.

DISTRICTS.

	One	Two	Three	Four	Five	Six	Total
January	10	12	9	5	10	10	56
February	9	9	10	2	27	9	66
March	14	9	13	13	12	7	68
April	5	12	6	6	18	14	61
May	11	21	7	3	14	11	67
June	9	4	7	2	15	7	44
July	11	7	16	7	11	10	62
August	14	9	8	4	11	8	54
September	7	11	9	7	5	4	43
October	11	8	8	6	7	4	44
November	4	12	10	7	7	12	52
December.	11	11	10	8	9	10	59
Totals	116	125	113	70	146	106	676

CASES TREATED AT DISPENSARY BY DISTRICT
PHYSICIANS FOR 1904.

	DISTRICTS.						
	One	Two	Three	Four	Five	Six	Total
January.....	26	33	35	28	35	60	217
February	49	30	39	18	37	76	249
March.....	45	53	64	19	54	77	312
April.....	60	31	60	19	44	75	289
May	40	67	49	13	28	71	268
June	39	42	55	17	25	76	254
July	52	27	94	21	60	89	343
August.....	46	53	78	27	48	58	310
September.	39	71	57	18	37	82	304
October :.....	70	29	66	18	54	93	330
November	25	51	69	21	21	75	262
December.....	40	22	28	35	34	93	252
Totals.....	531	509	694	254	477	925	3,390

EXPENDITURES OF DEPARTMENT OF OUT-DOOR
RELIEF FOR YEAR 1904.

	General Sundries.	Office Bills.	Salaries and Pay Rolls.	Total.
January	\$5,637 19	\$137 09	\$657 19	\$6,431 47
February	2,082 14	48 32	711 80	2,842 26
March	2,071 98	94 33	837 80	3,004 11
April	3,881 62	82 45	1,009 75	4,973 82
May	2,970 66	46 48	837 80	3,854 94
June	2,553 53	30 35	837 80	3,421 68
July	3,678 32	98 77	1,009 75	4,786 84
August	3,782 78	70 64	837 80	4,691 22
September	2,570 44	8 35	837 80	3,416 59
October	2,695 81	133 35	1,009 75	3,838 91
November	736 41	34 00	837 80	1,608 21
December	9,185 44	41 73	1,009 79	10,236 96
Totals	\$41,846 32	\$825 86	\$10,434 83	\$53,107 01

AMOUNT PAID FOR LOWELL'S SICK POOR IN LOCAL
HOSPITALS FOR YEAR 1904.

	St. John's Hospital.		Lowell Hospital Associ'n		Total.
	City Cases.	State, City and Town Cases.	City Cases	State, City and Town Cases.	
January	\$ 87 25	\$100 55	\$	\$	\$187 80
February . .	127 25	124 41	10 00	. . . . .	261 66
March.	77 25	116 57	. . .	. . . . .	193 82
April	101 00	42 57	. . .	. . . . .	143 57
May	96 75	35 71	38 50	. . . . .	170 96
June	147 00	32 14	28 50	21 86	229 50
July	124 25	54 89	24 50	44 00	247 64
August.	121 75	27 86	. . . . .	. . . . .	149 61
September. .	130 00	20 72	. . . . .	. . . . .	150 72
October	95 75	46 00	. . . . .	. . . . .	141 75
November . .	81 00	104 43	. . . . .	. . . . .	185 43
December . .	125 75	139 86	45 93	103 07	414 61
Totals. . .	\$1,315 00	\$845 71	\$147 43	\$168 93	\$2,477 07

MONTHLY RECEIPTS OF DEPARTMENT OF OUT-
DOOR RELIEF FOR 1904.

	Credited to Appropriation.	Credited to General Treasury Fund.	Total.
January	\$	\$ 737 10	\$ 737 10
February	6 75	178 73	185 48
March	12 25	1,321 28	1,333 53
April	12 50	328 80	341 30
May	11 50	322 57	334 07
June	8 25	93 25	101 50
July	2 50	422 10	424 60
August . . . . .	. . . . .	858 60	858 60
September	2 75	115 25	118 00
October	4 25	39 50	43 75
November	6 92	47 60	54 52
December	68 53	428 96	497 49
Totals.	\$136 20	\$4,893 74	\$5,029 94

MONTHLY CASH OUTPUT, INCLUDING PAY ROLLS, JAN. 1, 1904, TO JAN. 1, 1905.

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Secretary's Office.....	\$ 450 45	\$350 12	\$396 13	\$422 20	\$348 28	\$332 15	\$438 52	\$372 44	\$310 15	\$473 10	\$335 80	\$381 52	\$4,610 86
Ambulances	468 95	426 31	535 57	781 33	618 05	496 41	606 16	501 84	572 45	632 16	426 82	710 80	6,776 85
Dispensary.....	273 72	210 18	197 35	195 20	175 68	91 00	247 99	149 86	111 01	238 29	124 68	225 08	2,240 04
Coffins and Interin'ts	27 50	19 50	60 00	46 00	46 00	54 50	71 50	56 00	69 38	70 00	3 00	92 00	615 38
Physicians	267 62	74 66	108 99	127 66	179 99	56 00	136 66	114 99	55 99	83 32	62 99	280 60	1,549 47
Cities and Towns.....	783 24	326 86	96 45	21 00	12 00	141 09	465 25	265 57	60 00	96 05	.....	1,470 96	3,738 47
Institutions.....	1,920 57	453 06	746 05	819 87	349 44	801 16	652 16	327 45	740 37	607 20	610 97	908 78	8,937 08
Cash Allowances.....	377 02	328 90	352 12	382 51	402 98	373 87	378 05	381 77	398 30	396 59	406 59	394 33	4,573 03
Orders on Stores.....	254 00	188 00	215 00	261 30	213 90	234 00	191 00	209 29	273 00	255 25	245 00	219 05	2,757 89
Commonwealth.. ....	.....	.....	.....	.....	...	.....	.....	.....	.....	.....	.....	2,625 09	2,625 09
Orders from Al'house	1,522 00	855 00	893 00	743 00	609 00	639 00	1,235 00	641 00	623 00	675 00	729 00	783 00	9,947 00
Sundries.....	86 50	60 30	28 30	55 00	54 52	64 50	79 00	36 00	80 07	31 70	12 00	203 08	790 97
Wood Yard.....	.....	412 37	296 45	120 00	101 00	136 00	284 75	1,635 01	104 22	281 00	299 58	274 50	3,944 88
Totals.	\$6,431 57	\$3,705 26	\$3,925 41	\$3,975 07	\$3,109 94	\$3,419 68	\$4,786 04	\$4,691 22	\$3,397 94	\$3,839 66	\$3,256 48	\$8,568 79	\$53,107 01

TOTALS OF OUT-DOOR AID FROM JANUARY 1, 1904 TO JANUARY 1, 1905.

	LOWELL CASES.				STATE, CITY AND TOWN CASES.				Total.
	Wood.	Coal.	Provisions.	Orders.	Wood.	Coal.	Provisions.	Orders.	
January.....	\$191 26	\$358 54	\$706 08	\$173 00	\$39 74	\$73 46	\$152 92	\$39 50	\$1,734 50
February.....	183 44	348 88	686 77	174 00	42 56	84 62	170 23	29 00	1,719 50
March.....	248 24	283 62	747 09	201 00	50 76	50 38	147 91	47 00	1,776 00
April.....	330 23	.....	639 53	181 00	53 77	.....	104 47	32 00	1,341 00
May.....	274 37	.....	530 81	183 52	39 63	.....	78 19	32 00	1,138 52
June.....	286 25	.....	555 22	183 00	42 75	.....	85 78	32 00	1,185 00
July.....	261 71	.....	508 41	174 00	38 29	.....	76 59	38 00	1,097 00
August.....	288 13	.....	565 24	195 29	38 87	.....	77 76	29 00	1,194 29
September.....	283 78	.....	546 48	213 00	37 26	.....	74 52	41 00	1,196 04
October.....	291 04	.....	566 41	216 00	55 96	.....	108 59	23 00	1,261 00
November.....	327 31	.....	612 42	237 20	57 69	.....	114 58	35 00	1,384 20
December.....	130 21	347 43	738 86	252 00	42 29	65 57	148 14	57 50	1,782 00
Totals.....	\$3,095 97	\$1,338 47	\$7,403 32	\$2,383 01	\$539 57	\$274 03	\$1,339 68	\$435 00	\$16,809 05

FINANCIAL STATEMENT OF THE PAUPER
DEPARTMENT FOR THE YEAR 1904.

OUT-DOOR RELIEF.

CREDITS.

Appropriation	\$43,585 00	
Additional Appropriation	9,385 81	
Receipts to Credit of Appropriation . .	136 20	
	<hr/>	
Total Credits		\$53,107 01

DEBITS.

Gross Expenditures	\$53,107 01	
Receipts credited to General Treasury Fund	4,893 74	
	<hr/>	
Net Cost of Out-Door Relief Dept.		\$48,213 27

CITY HOSPITAL AND ALMSHOUSE.

CREDITS.

Appropriation	\$50,817 89	
Additional Appropriation	10,746 78	
Receipts to Credit of Appropriation .	10,056 36	
	<hr/>	
Total Credits		\$71,621 03

DEBITS.

Gross Expenditures.....	\$71,621 03	\$71,621 03
Amount Paid for Out-Door Relief....	9,947 00	
Receipts Credited to General Treasury Fund.....	976 20	
	<hr/>	
	\$10,923 20	
Net Cost of Hospital and Almshouse.....	\$	60,697 83
Net Cost of Entire Pauper Department.....		108,911 10

Respectfully submitted,

MARTIN J. COURTNEY,

Secretary.

ANNUAL REPORT

OF THE

Lowell City Hospital and Almshouse

FOR THE YEAR ENDING DEC. 31

1 9 0 4

Superintendent's Report.

LOWELL, MASS., Dec. 31, 1904.

TO THE OVERSEERS OF THE POOR:

GENTLEMEN :— I have the honor to present to you the following report :

The beginning of the year found us with the old order which included a workhouse and an infirmary for the insane and demented.

Since that time the reprehensible practice of committing prisoners to an institution designed solely for the sick and needy has ceased and a large number of the committed insane have been removed. We still retain, however, many insane patients who have been committed but who are considered what are termed " almshouse cases " and a still larger number in various stages of dementia who have not been committed for various reasons, principally due to extreme age. Hence the total number of patients in the infirmaries, male and female combined, is now ninety-one as compared with a population one hundred and eleven, twelve months ago.

Furtermore, the total population in all departments combined is today four hundred and one as compared with four hundred and twelve a year since, an actual decrease of only eleven with every promise of a marked increase, due mainly to the unlicensed abuse of this institution by that class who, due to their "pull," use it as a refuge when threatened with death or arrest following the excessive use of alcohol.

During the year the total number of admissions to the almshouse alone amounted to seven hundred and sixty-five and of this number one hundred eighty-two were pure alcoholics and at admission presented all the phases from acute delirium to the coma preceding death.

I will admit that some of these admissions were justifiable and worthy of the treatment accorded them, but in a large number of the cases this was not true.

The glaring abuse, however, lies in the fact that the worst of the class of recurrent alcoholics, after treatment which is necessarily expensive, demand their release as soon as recovered rather than do any work in payment and failing to get it readily, take "French leave." One man stated that he was told to do this by a member of your board. The result is not far to seek and I presume the animus is obvious.

It must be patent to you as it is to me that the true idea of a system of charities as an arrangement which should secure comfortable asylums and appropriate provisions for the poor in sickness and old age only, is far from being realized here at present, for without the co-operation of your board, it is virtually impossible to dissociate the worthy from the unworthy owing partially to the woful lack of discrimination with respect to admissions.

We have here the spectacle of unworthy individuals whose distress is caused immediately by their own vice and wilful folly,

who should belong solely to the province of the law, demanding the indulgences that belong only to the respectable and sick poor and resenting anything savoring of discipline.

During the year the enormous number of two thousand nine hundred and four tramps have been housed and have been required to perform three hours labor. In the main this has been complied with cheerfully and willingly. The records of their previous stopping places would indicate that the majority came from Boston.

There has been little improvement in the quarters allotted to them and as yet no money has been appropriated wherewith to furnish much needed sanitary facilities. It is true they belong to the department of police, but if we are to continue to be compelled to harbor them, we ought to be spared, and try to spare other places, danger of infection from what might be termed itinerant disease mongers.

The nursery needs enlarging and the need is imperative. The constantly crowded condition makes isolation difficult, if not impossible, and leaves us constantly menaced by epidemics. The highest number in the nursery on any one day was twenty-five and the lowest eight.

In the lying-in ward there were sixteen births, of which sixty-two per cent were illegitimate.

It would be well if these births could be officially registered from some other address than the almshouse, in order to remove the disability from which children born in almshouses may suffer in after life.

Of the legitimate diseases treated, Tuberculosis again furnished the largest number, the combined hospitals, male and female having registered twenty-eight cases.

The total number of deaths from all causes was one hundred, of which one only was due to alcoholism.

The daily average in the two hospitals was eighty-two.

More than twenty-two hundred prescriptions were made up in the dispensary and since the month of April it has been required that the pharmacist be registered in accordance with the suggestion of the State Board of Charity.

The output from the carpenter, tin and blacksmith shops has been about as usual. The farm shows a fair increase.

Some of the most urgent improvements were made by the Public Buildings department, out of a small fund allowed to it for that purpose, so that only minor repairs had to be paid out of the appropriation allowed to us for maintenance.

I am again giving a list of necessary repairs and improvements to the above department and we can only hope that our wishes will sometime be honored, and lest it be forgotten I would again call to your attention the suggestion that the vacant lot at the north end of the sand bank, with large frontage on Chelmsford street, could be disposed of and the proceeds used to advantage in bettering the physical condition of our buildings.

In conclusion I beg your assistance in the line of progress.

Respectfully,

CHARLES E. DONLAN.

AGES OF INMATES ADMITTED TO ALMSHOUSE AND HOSPITAL DURING 1904.

	To 10		10-20		20--30		30-40		40-50		50-60		60-70		70-80		80-90		90-100		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Jan.	4	0	1	0	4	1	6	2	8	6	3	3	3	3	0	1	1	0	0	1	30	17
Feb.	0	0	0	2	3	3	6	4	11	7	6	0	5	3	0	0	0	0	0	0	31	20
March	4	1	2	1	3	0	7	2	4	6	4	2	2	5	0	0	1	2	0	0	27	19
April	6	4	2	1	0	3	4	3	5	2	5	2	1	6	1	0	0	0	0	0	24	21
May	0	1	2	1	2	2	7	2	11	10	11	4	4	0	1	0	0	0	0	1	38	21
June	8	0	2	1	2	3	6	2	13	2	10	9	6	5	4	1	0	1	0	0	51	24
July	7	5	4	2	2	1	5	4	15	9	7	4	6	4	2	4	0	0	0	0	48	33
Aug.	2	2	2	1	3	4	7	4	11	5	9	2	4	2	2	3	0	0	0	0	40	23
Sept.	1	0	1	1	4	3	9	1	12	5	5	6	5	7	4	1	0	0	0	0	41	24
Oct.	3	1	1	1	7	3	8	3	13	4	10	8	8	6	2	1	2	1	0	0	54	28
Nov.	4	4	1	0	2	4	11	4	11	4	10	2	4	2	0	1	0	1	0	0	43	22
Dec.	12	4	5	2	5	5	10	7	7	9	5	3	6	5	0	0	1	0	0	0	51	35
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	51	22	23	13	37	32	86	38	121	69	85	45	54	48	16	13	5	5	0	2	478	287

DAILY POPULATION OF ALMSHOUSE FOR YEAR 1904.

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	377	327	345	330	297	285	309	330	322	327	362	370
2.....	377	329	345	330	297	285	310	334	326	327	364	370
3.....	375	328	338	328	297	285	303	333	329	330	366	376
4.....	375	328	338	328	294	286	300	323	329	330	368	377
5.....	379	325	336	327	293	288	301	323	331	330	368	377
6.....	379	326	337	327	290	292	301	325	329	332	368	371
7.....	377	325	339	327	288	289	301	325	331	331	368	371
8.....	377	328	342	322	285	288	301	329	333	332	366	380
9.....	374	327	338	319	288	292	303	332	335	335	360	381
10.....	375	328	338	321	289	291	304	332	336	343	363	387
11.....	374	330	328	319	292	291	303	331	336	343	363	382
12.....	347	335	339	319	289	291	305	329	336	348	363	380
13.....	346	333	341	318	289	293	306	329	332	344	363	380
14.....	345	333	341	318	288	293	309	327	329	346	365	380
15.....	345	335	338	320	285	295	308	329	331	344	363	379
16.....	345	329	337	309	285	300	307	327	333	346	366	380
17.....	344	329	337	309	285	298	308	330	335	347	363	380
18.....	343	333	337	312	287	300	308	332	335	350	364	378
19.....	343	335	340	308	285	304	306	333	334	351	364	378
20.....	344	338	339	311	285	304	309	333	330	351	363	378
21.....	350	336	339	304	284	304	310	333	330	347	363	386
22.....	353	336	337	304	286	304	308	333	330	350	367	386
23.....	355	336	334	303	285	308	315	329	329	350	368	385
24.....	354	337	332	304	284	309	314	328	325	348	369	380
25.....	354	342	333	297	285	314	312	329	325	350	370	383
26.....	353	344	333	297	285	314	312	328	322	357	369	383
27.....	352	343	335	296	285	314	310	328	324	361	367	383
28.....	352	343	333	297	286	312	310	328	324	361	367	380
29.....	327	343	333	302	285	308	316	326	327	360	369	385
30.....	328	...	333	300	286	309	316	327	327	360	369	389
31.....	328	...	330	...	284	...	323	327	...	362	...	399
Avg.....	356	333	337	313	288	298	308	329	329	345	366	380

DAILY POPULATION OF WORKHOUSE FOR YEAR 1904.

Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	35	28	33	39	38	64	56	88	64			
2.....	35	229	36	39	34	65	56	88	65			
3.....	35	29	36	36	36	65	57	84	63			
4.....	34	29	36	36	37	65	55	79	63			
5.....	32	28	36	36	41	58	55	78	63			
6.....	32	29	36	36	41	58	55	79	56			
7.....	32	29	36	36	43	59	55	81	55			
8.....	30	29	36	33	43	60	55	76	56			
9.....	32	32	35	33	43	60	54	73	56			
10.....	32	32	34	35	43	60	58	75	56			
11.....	31	33	31	35	43	59	58	76	56			
12.....	28	33	31	34	43	59	59	77	56			
13.....	28	33	31	34	48	59	65	77	56			
14.....	28	33	31	33	48	59	65	77	56			
15.....	28	32	33	33	43	59	59	73	56			
16.....	27	32	34	35	43	50	59	86	56			
17.....	27	32	35	35	42	49	60	89	53			
18.....	27	34	37	35	43	47	60	88	53			
19.....	29	34	39	34	46	47	66	88	53			
20.....	29	34	40	33	46	47	71	88	53			
21.....	28	34	40	35	44	48	77	89	52			
22.....	29	34	37	35	44	48	81	87	52			
23.....	29	32	38	33	44	50	86	81	52			
24.....	29	33	39	34	48	50	84	80	52			
25.....	29	32	39	35	49	50	84	79	52			
26.....	28	32	39	36	49	54	94	78	49			
27.....	28	34	39	36	49	54	94	69	49			
28.....	28	34	39	37	61	56	93	69	49			
29.....	28	34	39	38	62	56	92	69	47			
30.....	28	..	39	36	62	57	93	65	47			
31.....	28	..	39	..	61	..	93	65	..			
Avg.....	30	32	36	35	45	56	69	79	55			

DAILY POPULATION OF HOSPITAL, ALMSHOUSE AND WORKHOUSE FOR 1904.

	Jan.	Feb.	March	Apr	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	412	355	378	369	335	349	365	418	386	327	362	370
2.....	412	358	381	369	331	350	366	422	391	327	364	370
3.....	410	357	374	364	333	350	360	417	392	330	366	376
4.....	409	357	374	364	331	351	355	402	392	330	368	377
5.....	411	353	372	363	334	346	356	401	394	330	368	377
6.....	411	355	373	363	331	350	356	404	385	332	368	371
7.....	409	354	375	363	331	350	356	406	386	331	368	371
8.....	407	357	378	355	328	348	356	405	389	332	366	380
9.....	406	359	373	352	331	348	357	405	391	335	360	381
10.....	407	360	372	356	332	352	362	407	392	343	363	387
11.....	405	363	369	354	335	351	361	407	392	343	363	382
12.....	375	368	370	353	332	350	364	406	392	348	363	380
13.....	374	366	372	352	337	350	371	406	388	344	363	380
14.....	373	366	372	351	336	352	374	404	385	346	365	380
15.....	373	367	371	353	328	352	367	402	387	344	363	379
16.....	372	361	371	344	328	354	366	413	389	346	366	380
17.....	371	361	372	344	327	350	368	419	388	347	363	380
18.....	370	367	374	347	330	347	368	420	388	350	364	378
19.....	372	369	379	342	331	347	372	421	387	351	364	378
20.....	373	372	379	344	331	351	380	421	383	351	363	378
21.....	378	370	379	339	328	351	387	422	382	347	363	386
22.....	382	370	374	339	330	352	389	420	382	350	367	386
23.....	384	368	372	336	329	352	401	416	381	350	368	385
24.....	383	370	371	338	332	358	398	408	377	348	369	380
25.....	383	374	372	332	334	359	396	408	377	350	370	383
26.....	381	376	372	333	334	364	406	406	371	357	369	383
27.....	380	377	374	332	334	368	404	397	373	361	367	383
28.....	380	377	372	334	347	368	403	397	373	361	367	380
29.....	355	377	372	340	347	368	408	395	374	360	369	385
30.....	355	...	372	336	348	364	409	392	374	360	369	389
31.....	356	...	369	...	345	366	416	392	...	362	...	399
Avg.....	386	365	373	348	333	354	377	408	384	345	366	380

BIRTHS, 1904.

	Male	Female	Legitimate	Illegitimate	Total
January	1	0	1	0	1
February	0	0	0	0	0
March	1	0	0	1	1
April	3	0	1	2	3
May	0	0	0	0	0
June	2	0	0	2	2
July	0	1	0	1	1
August	0	1	1	0	1
September	0	0	0	0	0
October	1	1	0	2	2
November	2	2	2	2	4
December	0	1	1	0	1
	—	—	—	—	—
Totals	10	6	6	10	16

DEATHS, 1904.

	Male	Female	Total
January	2	5	7
February	4	1	5
March	4	3	7
April	4	5	9
May	5	6	11
June	6	2	8
July	5	4	9
August	4	6	10
September	7	1	8
October	3	1	4
November	4	7	11
December	5	6	11
	—	—	—
Totals	53	47	100

FARM PRODUCTS FOR YEAR 1904.

Apples, No. 1.....	40 Barrels
Apples, No. 2.....	25 Barrels
Apples, Cider.....	85 Barrels
Beans, String.....	32 Bushels
Beef.....	1290 lbs.
Beets.....	82 Bushels
Cabbage.....	43,200 lbs.
Celery.....	380 Bunches
Cider, Made.....	834 Gal.
Corn, Sweet.. ..	144 Bushels
Cucumbers.....	140 Bushels
Carrots.....	95 Bushels
Eggs.....	773 Dozen
Grapes.	15 Bushels
Green Fodder Oats	3880 lbs.
Green Fodder Barley.....	4200 lbs.
Hay.....	86 Tons
Lettuce.....	80 Dozen
Milk.....	14,409 Gal.
Onions.....	182 Bushels
Parsnips.....	81 Bushels
Peaches.....	2 Bushels
Pears.....	42 Bushels
Peas, Green	40 Bushels
Plumbs.....	8 Bushels
Pork, Dressed.....	4163 lbs.
Potatoes.....	720 Bushels
Poultry, Dressed.....	336 lbs.
Radishes.....	340 Bunches
Squash.....	32,400 lbs.
Tomatoes... ..	138 Bushels
Turnips, Rutabagas.....	242 Bushels

FINANCIAL STATEMENT.

Month	Sal. and Labor	Sundries	G. G. & P.	Totals
January	\$1,314 74	\$2,177 85	\$3,981 90	\$7,474 49
February	1,232 14	2,447 36	3,669 80	7,349 30
March	1,073 13	3,784 93	3,756 39	8,614 45
April	1,432 78	3,311 45	1,683 03	6,427 26
May	1,105 57	874 16	2,528 84	4,508 57
June.	1,173 39	1,658 24	1,933 28	4,764 91
July	1,449 23	979 56	1,349 61	3,778 40
August.	1,198 14	1,085 49	2,284 78	4,568 41
September	1,189 13	1,220 22	3,172 88	5,582 23
October	1,438 08	3,945 43	1,554 71	6,938 22
November	1,198 14	809 80	1,212 48	3,220 42
December	1,514 01	1,380 68	5,499 68	8,394 37
Totals.	\$15,318 48	\$23,675 17	\$32,627 38	\$71,621 03

Total expenditure \$71,621 03

Per Capita Cost per week 3 01

ANNUAL REPORT
OF THE
BIRTHS, MARRIAGES, AND DEATHS,
IN THE
City of Lowell,
FOR THE YEAR 1904.



LOWELL, MASS.,
PRESS OF C. E. ROBINSON
1905

CITY OF LOWELL.

IN BOARD OF ALDERMEN,
April 4, 1905.

Received, read, ordered on file; sent down for
concurrence.

GIRARD P. DADMAN, City Clerk.

IN COMMON COUNCIL,
April 4, 1905.

Received, read and ordered on file in concur-
rence.

FRANK M. DOWLING, Clerk.

CITY OF LOWELL.

CITY CLERK'S OFFICE, }
April 4, 1905. }

TO THE HONORABLE CITY COUNCIL:

GENTLEMEN:—I have the honor to present you herein the annual report of Births, Marriages and Deaths for the year 1904, as of record in this office, to wit:

BIRTHS.

	WARDS—One	Two	Three	Four	Five	Six	Seven	Eight	Nine	Ward not given	Total
Whole Number	171	257	232	304	247	337	568	191	192	16	2515
Males.....	76	136	114	146	123	181	310	103	105	9	1303
Females.....	95	121	118	158	124	156	258	88	87	7	1212
American Parents....	27	29	65	63	40	60	68	69	53	2	476
Foreign Parents.....	106	190	102	193	166	195	395	60	90	4	1501
American Father, Foreign Mother....	17	21	27	22	22	36	43	34	24		246
Foreign Father, American Mother..	19	14	37	25	15	45	60	26	25	1	267
Parents' Nationality											
Unknown.....	2	3	1	1	4	1	2	2		9	25
Twins.....	2	1	6	4	2	4	4	4	1	1	29

Increase over 1903, 1.

Still Births not included in above, 143.

MARRIAGES.

The number of intentions of marriage issued in 1904 was 1056, 45 more than in 1903.

The number of marriages recorded was 1065, being 39 more than in 1903.

The number of marriages solemnized in Lowell was 990; solemnized elsewhere, 75.

NUMBER OF MARRIAGES IN EACH MONTH IN 1904.

January.....71	May.....91	September.....89
February.....70	June.....175	October.....119
March.....21	July.....82	November.....109
April.....105	August.....75	December.....58

NATIONALITY OF CONTRACTING PARTIES.

	GROOMS.	BRIDES.
United States	450	453
Canada.....	196	192
Ireland	110	132
England	67	45
British Provinces	44	57
Scotland	13	9
Russia and Poland.....	26	20
Greece.....	39	38
Portugal and Western Islands.....	31	33
Austria	60	64
Norway and Sweden	9	8
Other Countries	20	14
	GROOM.	BRIDE.
Oldest Couple Married.....	68	58
Youngest Couple Married.....	18	16
Oldest person, 74. Youngest person, 15.		
Grooms under 21 years, 56. Brides under 18 years, 20.		

DEATHS.

The total number of deaths returned and recorded in the City Clerk's Office for the year 1904 was 1779; of these 43 were residents of Lowell who died elsewhere, making the number of deaths returned and recorded as having occurred in Lowell, exclusive of still births, 1736, a decrease from 1903 of 161,

Males	860
Females	876
Persons between 80 and 90 years	60
Persons over 90 years	13
Still births (not included in above)	143

Statistics in greater detail relating to deaths may be found in the annual report of the Board of Health.

Respectfully submitted,

GIRARD P. DADMAN,

City Clerk.

TWENTY-SEVENTH
ANNUAL REPORT
OF THE
BOARD OF HEALTH
OF THE
CITY OF LOWELL
FOR THE YEAR 1904



LOWELL, MASS.:
THE LAWLER PRINTING COMPANY.
1905.

ORGANIZATION, 1904.

BOARD OF HEALTH.

WILLIAM B. JACKSON, M. D., Chairman.
LEONARD HUNTRESS, M. D.
WILLIAM C. DOHERTY.

HEALTH DEPARTMENT OFFICERS.

H. H. KNAPP, Agent and Secretary of Board.
THOMAS B. SMITH, M. D., Bacteriologist.
WILLIAM A. JOHNSON, M. D., Physician.
STEPHEN GARRITY, Plumbing Inspector.
WILLIAM H. CONNORS, Plumbing Inspector.
FRED A. BATES, Inspector Contagious Diseases.
FRANCIS J. O'HARE, General Inspector.
JOHN M. FARRELL, Inspector Meat and Provisions.
KATHARINE W. SNOW, Registrar.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, January 24, 1905.

Received, read and ordered on file in concurrence.

GIRARD P. DADMAN, *City Clerk*.

IN COMMON COUNCIL, February 21, 1905.

Received, read and ordered on file; sent down for concurrence.

FRANK M. DOWLING, *Clerk*.

REPORT

Lowell, Mass., January, 1905.

To the Honorable Mayor and City Council of the
City of Lowell:

The Board of Health respectfully submits its twenty-seventh annual report of its acts and decisions for the year 1904, together with a statement of the receipts and expenditures of the department for the same period.

The Board of Aldermen having failed to confirm two appointees before the first Monday in February, for the places held by Mr. J. H. McGuinness and Dr. Guy Holbrook, whose three-year terms had expired respectively in February, 1903, and February, 1904, these two members continued as hold-overs, and on Feb. 23, the Board organized for the ensuing year, Dr. Holbrook being elected Chairman, and Dr. Jackson, Secretary. This organization continued until April, when the Board of Aldermen having approved the Mayor's appointment of Mr. William C. Doherty for the expired term filled for a year by Mr. McGuinness, the former took his seat as a member of the board, and a new organization was effected, Dr. Holbrook resigning as Chairman and Dr. Jackson as Secretary, and Dr. W. B. Jackson was elected Chairman, and Agent Knapp, Secretary. At the second meeting in April, Dr. Leonard Huntress took the seat of Dr. Holbrook, and since that time the Board has consisted of Dr. W. B. Jackson, Mr. William C. Doherty, and Dr. Leonard Huntress. As thus consti-

tuted, there has been perfect unanimity of action on every matter coming before us for consideration.

The last act of the Board in 1903 was to adopt for the ensuing year the Bertillon or International System of Nomenclature of Diseases and Causes of Death. This, for a few months, greatly increased the labor of our Chief Medical Inspector, it becoming his duty to interview certain physicians and get them to change such indefinite terms as "debility," "heart failure," "inanition," "infantile," "marasmus," and "shock" as causes of death. We are glad to be able to state that the work has not been in vain, most of the mortuary certificates now being filled out in a perfectly satisfactory manner.

The regulation of the water supply in barber shops was another legacy which came down to us from last year, that Board having adopted certain rules for the sanitary improvement of barber shops, all of which rules were reasonable, and also easily carried out, except one, whereby it was required that "every barber shop shall be provided with running hot and cold water." This one necessitating the expenditure of from twenty to fifty dollars for plumbing, many of the barbers sought in different ways to evade. In order that the meaning of the regulation should admit of no question, the Board, in May, passed an amendment to the regulation to the effect that "said hot water shall be furnished through a pressure boiler." At the moment of writing, practically all the shops have complied with the requirements.

The City Solicitor, early in the year, gave an opinion that the Board could not, without the Mayor's signature, give a contract to Mr. Francis Gallagher to dispose of the paper waste for a period of ten years at one hundred twenty-five dollars (\$125.00) a year, because the total amount involved was in excess of three hundred dollars (\$300.00). An effort was made by one member of the Board to open the matter by again advertising for bids to dispose of the paper waste, but this was voted down, and it was ordered that the contract be given to Mr. Gallagher for one year, he to pay the city one hundred twenty-five dollars (\$125.00). The man who for several years

had had the contract, obtained a junk dealer's license, made some private contract with the principal firms having waste paper to dispose of and collected the paper himself, greatly curtailing the supply which Mr. Gallagher expected to receive. Mr. Gallagher had been warned when he took the contract that such an event might occur, but he wanted to take the obligation, notwithstanding the risk. He soon appeared, however, before the Board, complaining that he was getting but a small part of the paper for which he had bargained. The Board, however, had no power to stop business firms from making a private disposition of their paper, nor to take away the junk dealer's license.

Mr. Gallagher again appeared and asked for a rebate in the amount which he had agreed to pay the city, but this the Board declined to do. Mr. Gallagher has not paid the City for the last two quarters, this amounting to \$62.50. His contract expires Jan. 12, 1905. If we cannot collect the amount due without recourse to law, the City will at least have received \$12.50 more than in the preceding year.

The nuisance which for years had given the Board the most trouble, and that which it was the most difficult to abate, was the so-called "Gas Nuisance." Hundreds of complaints had been sent to the office and to individual members of the Board. Numerous hearings were held at which complainants, representatives of the Gas Light Company, and the City Engineer were present. The Gas Light Company professed a willingness to do anything in its power to stop the trouble. At a hearing held in January, a representative of the Gas Company claimed that the trouble was not due to the filtrate discharged into the sewer at the Gas Works, but that the bad odor arose from steam discharged into the sewer, contrary to law, by manufacturing and other concerns on Western Avenue. On cross-examination, however, this representative was unable to explain why there should be an odor of gas in the sewer at the corner of Broadway and

School Streets, or how steam could produce an odor of gas if there was no gas residue present in the sewer.

The Board investigated the claim in regard to the discharge of steam into the sewer, inspecting along the line of the main sewer or its tributaries every manufacturing or other concern using steam. We found that a large amount of hot water was emptied into the sewer by the laundries along Western Avenue, but that no steam under pressure was turned into the sewer, contrary to law. The Board made many personal inspections of houses where the bad odor was manifest; we followed up the line of the sewer, observing the odor at the man-holes and traced this same odor to the Gas Light Company's plant, and were satisfied that the cause of the nuisance was a tarry filtrate discharged into the sewer at the Gas Works.

This tarry matter is a waste product of no commercial value, being the residue remaining in the water after the carburetting of water gas. The amount of this tarry water is from one to two thousand gallons daily and the disposal of this odorous material has been for years a serious and perplexing problem for the Gas Company and the Board of Health. Till within about two years ago, they carted most of it to the river, and discharged some of it into the sewer, but the people along the course of the sewer made so many complaints of the odor that the Gas Company found they must make some other disposition of the offending material. To this end, they built a filtration plant and endeavored to free the water from the tarry matter by precipitating the latter with lime-water, subsequently passing the water through successive beds of coke, the latter being changed occasionally as it became charred with tar, and finally the water was discharged into the sewer. This water was nearly clear, and when cold, it had only a slight odor of tar.

Such, in brief, were the conditions of the Gas Works up to the spring of 1904. It was found, however, that there was no abatement of the "Gas Nuisance"; in fact, it was even worse

than ever during the winter of 1903-4. Complaints were so numerous and persistent that we felt that the nuisance must be stopped though it involved the city in an expensive suit at law with a rich corporation. We engaged the services of L. A. Olney, Professor of Chemistry at the Lowell Textile School, to make further investigations and to give expert testimony in court, if necessary. With him, for about two months, we studied the problem, even going to the extent of donning oil suits and rubber boots and personally inspecting the bottom of the sewer at nearly every man-hole along its course. We found that the tar-water filtrate from the Gas Works, as it was discharged into the sewer in Western Avenue, was slightly warm and gave off a decided tarry odor. We also found that the bottom of the sewer at the man-holes in this avenue was covered several inches deep with a mixture of sand and tar, smelling very strongly of the latter, and of course, giving off its volatile principles to the water passing over it. Opposite the Plush Works and at the laundries on Western Avenue, considerable hot water came into the sewer, having the effect of increasing the tarry odor. The Rock Street sewer empties into the main line near Richardson's Grocery Store in Liberty Square, and the level of the larger sewer being several feet lower than that of the smaller, the water from the latter makes quite a cascade, very effectually stirring up the contents of the main line, and giving rise to a cloud of odorous steam, some of which escapes through the man-hole, assaulting the olfactories of all to the leeward of the spot. It may be said in passing that at this locality the odor of gas had always been more pronounced than at any other point on the line. Down Suffolk Street, where the Cross Street sewer enters, the conditions are very nearly the same, the cascade not being quite as high. But here it would seem that the tarry vapor, perhaps on account of the direction of the wind, at times travels up the Cross Street sewer and escapes, probably through weak points in the plumbing, into the cellar of the Parochial School and into the cellar of Mrs. Lyons, at No. 25 Cross Street, two places where the nuis-

ance has been complained of very often. As this main sewer crosses under the Northern Canal at Ford Street, it makes a drop of eight feet from the middle of the street to a point below the edge of the canal, and also diminishes very markedly in size under the canal, the sewer before it makes the drop in level being oval in section, 38 inches by 52 inches, while under the canal its section is circular and 36 inches in diameter. Where the water is high, as it would be during or after a storm this drop in level and great decrease in size must act as a trap for the air or vapor back of this point, causing the vapor to escape through the man-holes or be driven by the wind up the tributary sewers, and, as at Cross Street, working out through some of the cellars—a notable example being the premises of Miss Marietta Wheeler, 722 Merrimack Street, not to mention a dozen others.

As a result of our investigations, we felt able to prove that the so-called "Gas Nuisance" was due to the volatile tar-water discharged into the sewer at the Lowell Gas Works, this water not having been sufficiently deprived of the odorous or volatile principles of the tar, so that it could, without offence to anyone, be carried through the public sewer. We prepared an ultimatum to present to the Gas Company, but before delivering it, we found that the trouble was no longer in evidence.

Upon further investigation, we found that the Gas Company had greatly increased their capacity for making coal gas and, at the same time, diminished their output of water gas. In this way, the amount of tar-water was not in excess of the capacity of their filter beds. During the summer, they have been building new and larger filter beds, which are not yet in operation.

These changes, it seemed to us, would be likely to remedy the trouble, and we were very glad to let the matter rest, hoping that at last a nuisance had been abated which, for years, was a source of irritation to all concerned.

Early in April, Mr. W. C. Doherty was elected to represent the Board on the Plumbing Commission, and Mr. D. J.

Pendergast was re-elected as the practical plumber of that commission, to serve one year from June 1st, 1904.

For failure to comply with the requirements of the Statutes of the Commonwealth and the Regulations of the Board of Health in regard to the burial of the body of a person dying with a contagious disease, the undertaker's license of John J. O'Connell & Co. was revoked for one month, from Sept. 1 to Oct. 1, 1904. The particular offence was that Messrs. O'Connell & Co. allowed a public funeral and permitted four young boys to act as bearers in a case where the deceased died with diphtheria.

For allowing the father, who himself had diphtheria, to go in a public carriage to the cemetery for the burial of his child, who had died with diphtheria, the undertaker's license of Horace Ela was revoked 15 days, from Dec. 7 to Dec. 22, 1904. These penalties were exacted for disciplinary purposes, the Board feeling that the undertakers were becoming too careless concerning their responsibilities in preventing the spread of contagious diseases.

It seems unlikely that contagious diseases will ever be entirely eradicated, for coincidently with advance made by medical science in discovering the cause and applying means for the more certain cure of these zymotic affections, the great body of the public loses its fear of these diseases, because, thanks to the efforts of Physicians and Health Boards, so few really die, and, not being all the time under the eye of an inspector, they allow the ill to mingle with the well. It is a matter of common report that, in many of the congested districts of our city, a placard on the door, announcing the presence within of one ill with a contagious disease, does not prevent this patient from going out and mingling with his fellows on the street. To further warn the public, we have amended our Rules, and have caused to be printed on the placards the notice that no one ill with any of these diseases will be allowed to go out of the house until permission has been obtained from the Board of Health. No doubt, it will

be necessary to exact in the Police Court the penalty for the infraction of this regulation.

STABLES

We have received this year nine applications for licenses to erect stables, five of which have been granted, and in four cases the petitioners have been given leave to withdraw.

We realize that the horseless age has not yet arrived and that for horses stables must be built and we have granted permission for their erection in all cases except in residential sections too thickly settled, and where the proposed stable would be a positive nuisance to the neighborhood.

In the Archambault cause, the "*cause celebre*," we were asked to grant a license for a stable to accommodate four horses, in a building, the upper part of which consisted of nine tenements, the stable thus being directly underneath said tenements. This proposition, of course, we could not for a moment consider.

Every application for a stable license which we have received has been advertised in the newspapers and whenever any objection has appeared, a hearing has been granted. And in all cases, both with and without hearings, the Board has personally visited the premises before acting on the petitions. In every case, restrictions as to drainage, frequency of removal of manure, and other hygienic precautions have been made a condition of the granting of the license.

INSPECTOR OF PROVISIONS.

Lowell, Mass., Jan. 9, 1905.

To the Board of Health, Lowell, Mass.:

Gentlemen:—I take pleasure in rendering you a report as Inspector of Provisions for the eleven months that I have served.

I have made a thorough inspection of all the wholesale and retail meat and fish markets, as well as the wholesale produce dealers where perishable goods used as food are kept for sale. In the time mentioned, I have made one thousand, three hundred and twenty (1,320) visits, making thirty (30) visits to a section and taking one section each week.

During my first visits, I found conditions such that I had to give strict warning to some of the dealers to keep their stores clean and to handle their meats in such a way that they could be kept clean and fit for food. In a few cases, I found it necessary to destroy parts of veal, bad meats, fowl, etc.

I made no prosecutions, as I found by constant visits, that, as a whole, there had been a vast improvement, not only in meats, but also in the way in which they were handled.

I have paid strict attention to the condition in which refrigerators are kept, and can say that this one thing alone has a great deal to do with keeping the meats in a wholesome condition and free from pathogenic germs.

I would like to say a word about the poultry that is being sold in our city every day. A lady bought a 12 1-2 lb. turkey at 23 cents a pound, with the head on and undrawn, and I dressed it for her. The head and drawings weighed just two lbs., leaving but 10 1-2 lbs. That lady paid over 27 cents a pound for her turkey; so a person who buys

dressed and drawn poultry is getting it cheaper at 25 cents a pound than undressed at three to five cents less a pound.

Respectfully submitted,

JOHN M. FARRELL,

Inspector Meat and Provisions.

Lowell, Mass., Jan. 2, 1905.

H. H. Knapp, Agent Board of Health:

Sir:—The following is a report of the work done by me for the year ending Dec. 31, 1904:

Number of applications for permits to do plumbing:	
New buildings.....	167
Old buildings.....	294
Total	<u>461</u>

Number of visits new buildings	315
Number of visits old buildings.....	480
Total	<u>795</u>

Respectfully,

STEPHEN GARRITY,

Plumbing Inspector.

Lowell, Mass., Dec. 31, 1904.

The following is a report of the work done by the Plumbing Commission from Dec. 31, 1903, to Dec. 31, 1904:

Whole number of applicants for examination.....	34
For Master Plumbers' licenses.....	15
For Master Plumbers' licenses, passed.....	8
For Master Plumbers' licenses, failed.....	7
For Journeymen Plumbers' licenses	19
For Journeymen Plumbers' licenses, passed.....	9
For Journeymen Plumbers' licenses, failed.....	10

Master Plumbers' licenses granted to Wm. J. Dunn, Joseph Harvey, Edward Murphy, Fred E. Whitney, Chas. E. Bourrett, Patrick F. Welch, John Kelley, Thomas F. Sheehan. ,

Journeymen Plumbers' licenses granted to Irving Wright, J. B. Halloran, P. Curran, J. Fahey, James Doherty, M. Carroll, James Bowers, J. Lennox, Fred Thissell.

DENNIS J. PENDERGAST,

Secretary.

BOARD OF HEALTH IN ACCOUNT WITH PLUMBING COMMISSION.

Forwarded from 1903.....	\$ 5 14
Received from examinations and renewals.	62 50
	<hr/>
	\$67. 64

1904.

Cr.

April 9. Paid D. J. Pendergast.....	\$15 00
Sept. 26. Paid D. J. Pendergast.....	10 00
Nov. 29. Paid D. J. Pendergast.....	15 00
	<hr/>
	\$40 00
	<hr/>
Dec. 30, 1904, cash on hand.....	\$27 64

COMPILATION OF INSPECTORS' RETURNS.

Jan. 1 to Dec. 31, 1904.

Tenements	3883
Stores	312
Sinks	4034
Water closets	4957
Bath tubs	87
Basins	116
Set tubs	37
Cellars	1185
Urinals	39
Refrigerators	32
Vaults	174
Barns	115
House drains	825
Ash chutes	39
School houses	10
Engine houses	13
Bakeries	82
Barber shops	120
Steam power and heating plants.....	48
Dry wells.....	29
Hen houses	19
Complaints	289

Notices to abate the following nuisances were sent from this office during the year 1904:

Untrapped sinks.....	11
Unsealed sink traps.....	4
No water supply to sinks.....	15
Improperly trapped sinks.....	4
Clogged sink wastes.....	18
Defective and leaky sink traps.....	12
Filthy and dilapidated woodwork around sink	4
Leaky sink wastes.....	8
No cover for sink trap.....	2

No water supply to water closet.....	54
Filthy and dilapidated woodwork around water closet.....	7
Clogged water closet.....	72
Broken water closet bowls.....	13
Leaky hopper cocks to water closet.....	7
Leaky water closets.....	17
Filthy water closet apartments.....	15
No cover for water closet trap.....	4
Insufficient water supply to water closet.....	8
Untrapped water closets.....	1
Unsealed water closet trap.....	1
Cracked and leaky sinks.....	4
Old mattresses in cellar.....	3
Rubbish in cellar.....	38
Water in cellar.....	4
Swill, ashes and rubbish in yard.....	124
Manure in yard.....	2
Rubbish in yard.....	2
Open joints in soil, waste and ventilation pipes	15
Improperly constructed soil and waste pipes..	3
Defective cover to house trap.....	1
Broken and leaky wash bowls.....	2
Leaky roofs	7
Filthy tenements	5
Overflowing dry wells.....	4
Clogged drains.....	17
Open drains.....	4
Uncovered dry well.....	1
Uncovered vault.....	1
Dilapidated privy seats.....	2
To connect with street sewer.....	5
To furnish water closet facilities.....	2
Burst and leaky water pipes.....	16
Clean ash pits.....	1
Discontinue stable	1
Whitewash ceilings and walls.....	1

Build dry well.....	1
Furnish receptacles for sweepings and rubbish	1
Rabbits in tenement.....	1
To clean vaults.....	32
To remove swine.....	4
To remove fowl.....	1
Legal notices served.....	79
Permits given to T. F. Fay to clean vaults.....	123
Permits given to T. F. Fay to clean dry wells.....	35
Permits given to T. F. Fay to clean barn cellars.....	4
Permits given to T. F. Fay to clean water closets.....	2
Permits given to F. A. Fox to clean vaults.....	41
Permits given to F. A. Fox to clean dry wells.....	8

OFFICE INSPECTOR OF ANIMALS.

Lowell, Mass., Dec. 27, 1904.

To the Board of Health, Lowell, Mass.:

Dear Sirs:—As is customary, I herewith submit my annual report for the year ending 1904.

Since the first of January, 1904, as Inspector of Animals for the City of Lowell, I have personally examined five hundred and thirty animals for contagious diseases, identified and released two hundred and sixty-eight cows, and have looked up and reported to the Cattle Bureau of the State Board of Agriculture the arrival of twenty beef animals to be slaughtered and used as food.

There have been twenty-five horses quarantined, having glanders; and after being tested by the State Cattle Bureau, twenty-two reacted and were killed and the stables in which they were kept have been thoroughly disinfected; two were released as they were found free from glanders, and one still remains in quarantine awaiting the results of the Cattle Bureau tests. There were also ten horses reported to me as showing signs of glanders, which I did not deem proper to put in quarantine, after a careful examination. The danger from glanders is still a serious problem for this city, as it is a center to which are brought old worn-out horses, which are apt to have glanders, and these cases are apt to be a starting point from which it will get such a foothold before recovery that it will be hard to stop.

There have been two hundred and sixty-eight cows brought into the City by different parties, which have been identified and released by me.

I have examined and reported on the sanitary conditions, as regards air, light, water, cleanliness, etc., of forty-two

stables in which milk cows were kept, and forwarded the data to the State Cattle Bureau. In these forty-two stables, I have made a physical examination of two hundred and sixty-four cows, two hundred and twenty swine, seven calves, two oxen, and two bulls; from which five cows have been put in quarantine as being badly affected with tuberculosis.

These five milk cows have been examined by an agent of the State Cattle Bureau and my diagnosis confirmed, after which a price has been agreed upon with the owner and the cattle killed and a post-mortem made, and one out of the five showed no lesions of the disease. The others were diseased.

Respectfully submitted,

W. A. SHERMAN, D. V. S. M. D.,

Inspector of Animals,

Lowell, Mass.

CASES OF CONTAGIOUS DISEASES REPORTED.

	1904	1903	1902	1901	1900
Diphtheria, including Croup...	272	272	667	803	157
Scarlet Fever.....	120	146	116	65	80
Measles	429	55	785	356	114
Typhoid Fever.....	48	238	83	70	85
Smallpox	5	11	54	12	23
Totals.....	874	722	1705	1306	459

DEATHS FROM CONTAGIOUS DISEASES.

	1904	1903	1902	1901	1900
Diphtheria, including Croup..	34	34	76	117	27
Scarlet Fever.....	5	8	5	3	0
Measles	14	0	8	17	1
Typhoid Fever.....	17	26	16	18	17
Smallpox	1	0	4	0	0
Totals	71	68	109	155	45

CASES OF DIPHTHERIA AND CROUP REPORTED TO THE
BOARD OF HEALTH FOR THE YEAR 1904.

	Diphtheria.		Croup.	
	Cases.	Deaths	Cases.	Deaths.
January	19	2	2	2
February	7	1	2	1
March	12	0	1	0
April	14	1	0	0
May	12	0	1	1
June	29	1	0	0
July	5	0	0	0
August	17	5	0	0
September	28	2	0	1
October	55	6	0	0
November	33	6	0	0
December	35	5	0	0
Totals	266	29	6	5

Mortality of Diphtheria, 11 per cent.

Mortality of Croup, 83 per cent.

MORTALITY OF DIPHTHERIA.

	1894	33.0 per cent.
Antitoxin treatment	1895	44.0 per cent.
	1896	43.0 per cent.
	1897	23.0 per cent.
	1898	23.0 per cent.
	1899	18.0 per cent.
	1900	10.0 per cent.
	1901	12.0 per cent.
	1902	9.5 per cent.
	1903	10.5 per cent.
	1904	11.0 per cent.

Lowell, Mass., Jan. 16, 1905.

To the Members of the Board of Health,
Lowell, Mass.:

Gentlemen:—I have the honor hereby to submit a report of the work done in the Bacteriological Laboratory during the year ending Dec. 31, 1904.

DIPHTHERIA.

SUMMARY OF CULTURES EXAMINED.

	For Diagnosis.		For Release.		No	Whole
	Positive.	Negative.	Positive.	Negative.	Result.	Number
January	15	45	13	20	2	95
February	10	37	18	16	1	82
March	13	131	17	22	1	184
April	13	27	7	8	0	55
May	15	18	10	11	1	55
June	21	70	43	28	0	162
July	10	16	11	25	1	63

	For Diagnosis.		For Release.		No	Whole
	Positive.	Negative.	Positive.	Negative.	Result.	Number
August	19	30	6	5	0	60
September	25	32	14	20	1	92
October	42	37	44	47	5	175
November	35	58	45	47	6	191
December	30	40	24	29	2	125
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	248	541	252	278	20	1339

During the year, seven families infected with diphtheria and referred by physicians to the Health Department for treatment were attended at their homes. These seven families were found to contain thirty-one individuals, fifteen of whom had diphtheria. Under treatment all of them recovered.

The work was necessarily done under very unfavorable conditions, many of the cases being seen in a late stage of the disease. Two families had each lost a member by the disease before the Department took charge.

As soon as a notification of such a case was received at the office, an immediate visit was made. Antitoxin was given at once to any cases in which there was little doubt of the nature of the disease, without waiting for the result of a culture. A general examination with cultures of all exposed was made and the family isolated until the results of the cultures were found. A single large dose of antitoxin was given to all found infected with the disease, and they were quarantined from the rest of the family. In no case was it necessary to repeat the dose of antitoxin.

Four cases developed paralysis, two of the pharynx, one of the larynx, and one of the bladder. One patient had an attack of chicken-pox during the course of her diphtheria. All the paralysees passed off gradually.

One group of cases furnishes an excellent example of the importance of checking the spread of the disease in a crowded

tenement block. A single case was referred to the Department. An examination showed that three families living in different tenements in the same block and containing eleven individuals had been exposed continuously to the case. Cultures from them showed that four others, distributed through the three families, were already infected with the disease.

The five cases were isolated in two tenements and given antitoxin, and all recovered. Only one additional case developed, the nursing mother of one of the first cases.

On March 14th, a culture taken by the attendant physician from a male prisoner in the Lowell Jail, suffering from a sore throat, showed the presence of the bacillus of diphtheria. This case was at once isolated and a general examination of all the male prisoners, the women working in the laundry, and the officers exposed was made, 85 primary cultures being taken. Three additional cases were found in this way, which were also isolated. At the end of the month, negative cultures were obtained from the four cases. In all, 101 cultures were examined.

In a period of four days, nine cases of diphtheria having appeared on one milk route, on June 2d the Milk Inspector and Bacteriologist were sent out to make an investigation. Four farms from which the milk came were visited and cultures taken from 26 individuals. Of these, only one proved positive. This positive culture was from the man whose work was to collect the milk and distribute it to the consumers.

He had been working steadily all the time, had not been feeling ill, and his wife and child had remained uninfected. He was quarantined under a physician's care at once and all the milk-cans and utensils were disinfected. A negative culture was obtained from him twelve days later.

The first case on the route was reported May 30th. No new ones appeared after June 10th. One case proved fatal.

RECURRENCE OF DIPHTHERIA.

The records of the Laboratory since the adoption of the card system in 1901 show four cases of the recurrence of diphtheria.

Case One. A girl of 6 years; case reported with positive culture, May 29, 1901; antitoxin given; recovered; negative culture, June 19th.

Second attack reported May 20, 1902, with positive culture; antitoxin given; recovered; negative culture June 13th.

Case Two. A boy of 2 years; reported with positive culture July 20, 1902; antitoxin given; recovered; negative culture March 6th.

Second attack reported with positive culture April 25, 1904; antitoxin given; recovered; negative culture May 17th.

Case Three. A boy of 2 1-2 years; reported with positive culture July 20, 1902; antitoxin given; recovered; negative culture Aug. 11th.

Second attack reported, with positive culture, Oct. 6, 1904 antitoxin given; died Oct. 15th.

Case Four. A boy of 2 1-2 years; reported April 11, 1903; antitoxin given; recovered; negative culture April 27th.

Second attack reported with positive culture Sept. 27, 1904; antitoxin given; died Oct. 9th.

USE OF ANTITOXIN.

	Cases.	Per cent.	Per cent. Died. of deaths.	
Diphtheria	272			
Antitoxin used	252	93	28	11
Antiaoxin not used	20	7	6	30

QUARANTINE PERIOD.

In 230 cases, the average time of quarantine was 19 days.
The longest case lasted 55 days.

	TUBERCULOSIS.		EXAMINATION OF SPUTUM.
	Positive.	Negative.	Whole Number Examined.
January	5	9	14
February	5	16	21
March	6	20	26
April	4	15	19
May	7	23	30
June	10	8	18
July	11	10	21
August	4	10	14
September	14	8	22
October	11	11	22
November	7	14	21
December	8	21	29
	<hr/>	<hr/>	<hr/>
	92	165	257

TYPHOID FEVER.

Examination of Blood for Widal Reaction.

	Positive.	Negative.	Atypical.	No Result.	Whole Number.
January	5	3	1		9
February	5	3		2	10
March	1	5			6
April	2	9	1		12
May	2	11			13
June	2	4			6
July	2	10			12
August	4	2			6
September	2	6		1	9

	Positive.	Negative.	Atypical.	No Result.	Whole Number.
October	8	9	1		18
November	4	10			14
December	4	11	1		16
	<hr/> 41	<hr/> 83	<hr/> 4	<hr/> 3	<hr/> 131

MALARIA.

Seven specimens of blood were examined for the presence of the Malarial Organism, four of which were positive.

In addition a number of examinations were made for Pus Bacteria, the Gonococcus, the bacillus of Influenza, and the pneumococcus.

THOMAS B. SMITH, M. D.,

Bacteriologist.

In the Board of Health Report for 1900 occurs the following quotation: "Diphtheria requires the taking of a culture if the membrane is not discernable, then a visit to the office for antitoxin and return for the purpose of injection, and for two days, at least, double the care given for the ordinary disease. It is not just to expect a busy practitioner to give the required time to a disease that is also dangerous, possibly, to his other patients, without compensation, and therefore we request that any physician who feels that he cannot give the attention that should be awarded a person sick with diphtheria, involving the use of antitoxin, to request such patient to send at once to the Health Office, and a quick response will be given to the notification.

This method has in view the saving of the lives of many who otherwise would be allowed to wait until the poisonous toxin has so permeated the system that it could not be neutralized by the antidote. We do not wish to interfere in any way with the rights of the physician or his patient, but if we

are right in the belief that the great mortality in the disease comes from neglect to apply the proper remedy, this department is responsible if no note of warning is sounded, that some precaution by the patient's parents or friends, if the attending physician, for any reason, declines or refuses to use every method known to science to save life from this treacherous disease.

In 1903, eight families containing thirty-eight members were transferred by the reporting physician to the care and treatment of the Health Department, and were attended at their homes. Of the thirty-eight exposed, seventeen were found to have diphtheria. Of the seventeen cases, but one died, and this patient was not put under our care until the seventh day of her sickness.

In 1904, seven families were turned over by physicians to us for treatment, containing thirty-one individuals, fifteen of whom had diphtheria, and under treatment by the department, ALL recovered.

In 1903, there were thirty-four (34) deaths.

In 1904, there were thirty-four (34) deaths.

From the experience acquired during the last five years in the use and the decrement in the death rate from the introduction of antitoxin, we believe it has been demonstrated that but few, if any, deaths should result from this disease, and if any do occur, it is because antitoxin was administered so late in the disease that the poisons or toxins were present in the blood in overwhelming quantity, making it impossible for any antidote to be effectual.

In looking over the returns, it seems to us that in the majority of cases when death occurred, it was due to the fact that the physician was called late. Another bad feature of these neglected cases is the post diphtheritic paralysis, which is the result of the diphtheritic poison, and not, as is erroneously thought by some people, a sequence of the use of antitoxin.

The number of deaths in 1904 ought never to recur again in the annual records of the Department, and as having per-

haps a bearing upon its diminution, we wish to remove the prejudice that care and treatment from the Health Department casts any stain upon the family as pauperizing in any degree the recipients. The Revised Laws of the Commonwealth make it obligatory upon every city to provide for the treatment of every person attacked with a contagious disease.

Acts of 1902, Chapter 213, Section 2.

“No person, for whose care and maintenance a city or town of the Commonwealth has incurred expense in consequence of Smallpox, Diphtheria, Scarlet Fever, or other disease dangerous to the public health, shall be deemed to be a pauper by reason of such expenditure.”

The Board wishes to express its appreciation of the faithful and successful work of its Bacteriologist, both in the Laboratory and in the homes of the sick, where he has been sent to take medical charge of diphtheria cases that have been placed in our hands under the invitation quoted from the Report of 1900.

Our expense, at the Lowell Hospital for 1904 was \$490.49. as compared with \$260.00 for 1903.

Fay Hazard	\$ 8 57
Ada White	7 14
Abe Weiss	1 42
William McGrath	17 14
Sarah McDonald	28 57
Rosanna McDonald	28 57
Margaret McDonald	28 57
Fred McDonald	28 57
Carrie Carroll	18 57
Gertrude Anderson	25 86
Herbert Phillips	17 14
<i>Amount carried forward</i>	<u>\$000 00</u>

<i>Amount brought forward</i>	\$000 00
Janette Beckwith	7 00
Bertie Beckwith	11 00
Albert Terrence	1 43
Flora Richards	7 14
Thomas Breen	22 86
Sadie Breen	22 86
Mary Coggins	2 86
Irene Lyman	3 00
Mary Lyman	4 00
William Lyman	6 29
Madeline Daly	35 71
Margaret Fagan	15 71
Percy Gibson	18 57
Mabel Lambert	5 25
Katharine Warren	5 25
Frank Hart	40 00
Lizzie Breen	21 43
Marietta Breakey	22 86
Ada Wilmott	27 14
	<hr/>
	\$490 49

SCARLET FEVER.

	1904	1903	1902	1901	1900
Cases reported	120	146	116	65	80
Deaths	5	8	5	6	0
Per cent. total cases	4	5	4	9	0

	Reported Cases. Deaths.	
January	21	3
February	16	1
March	5	0
April	11	0
May	8	0
June	8	0

	Reported Cases.	Deaths.
July	6	1
August	5	0
September	11	0
October	13	0
November	9	0
December	7	0
	<hr/> 120	<hr/> 5

MEASLES.

	Reported Cases.	Deaths.
January	26	0
February	17	0
March	13	1
April	42	0
May	133	2
June	128	4
July	65	6
August	0	1
September	1	0
October	1	0
November	2	0
December	1	0
	<hr/> 429	<hr/> 14

TYPHOID FEVER.

	Reported Cases.	Death
January	5	1
February	3	3
March	3	4
April	2	0

	Reported Cases.	Deaths.
May	2	0
June	0	1
July	4	3
August	8	1
September	4	1
October	7	1
November	3	2
December	7	0
	<hr/> 48	<hr/> 17

TYPHOID FEVER.

	Population.	Reported Cases.	Deaths.
Total 1904	104,402	48	17
Total 1903	101,959	238	26
Total 1902	99,574	83	16
Total 1901	94,969	70	18
Total 1900	94,969	85	17
Total 1899	90,114	57	17
Total 1898	87,000	119	24
Total 1897	87,000	105	18
Total 1896	85,700	178	36
Total 1895	84,359	172	33
Total 1894	83,026	282	50
Total 1893	81,694	160	53
Total 1892	80,361	373	75
Total 1891	79,029	293	77
Total 1890	77,696	454	123

A decrease from 1.58 per thousand inhabitants to .16 in fifteen years.

PLACES OF DEATH.

Ward 1	2
Ward 2	0
Ward 3	1
Ward 4	2
Ward 5	0
Ward 6	1
Ward 7	2
Ward 8	1
Ward 9	0
Almshouse	0
St. John's Hospital	3
Lowell Hospital	5
Lowell General Hospital	0
	<hr/>
	17

Males	5
Females	12

Oldest	62 years
Youngest	5 years

DEATHS FROM CHOLERA INFANTUM.

	1904	1903	1902	1901	1900	1899
January	0	0	0	0	0	0
February	0	1	0	0	0	0
March	0	0	0	1	0	0
Total first quarter...	<hr/> 0	<hr/> 1	<hr/> 0	<hr/> 1	<hr/> 0	<hr/> 0
	1904	1903	1902	1901	1900	1899
April	1	0	0	0	0	1
May	0	1	1	1	0	1
June	2	3	3	4	5	12
Total second quarter	<hr/> 3	<hr/> 4	<hr/> 4	<hr/> 5	<hr/> 5	<hr/> 14

	1904	1903	1902	1901	1900	1899
July	47	61	59	27	66	77
August	37	63	22	38	28	38
September	22	21	20	24	20	39
Total third quarter..	106	145	101	89	114	154
October	3	7	1	4	10	7
November	1	0	1	0	1	1
December	0	0	0	0	1	0
Total fourth quarter	4	7	2	4	12	8
Total for the year...	113	157	107	99	131	176

PRINCIPAL CAUSES OF DEATH.

	1904	1903	1902	1901	1900
Cholera Infantum and other					
Diarrhoeal Diseases....	243	176	120	120	142
Phthisis and other Tubercu-					
loses	143	132	164	170	186
Pneumonia and Bronchitis..	247	263	278	310	282
Congenital Debility.....	148	140	172	156	137
Heart Disease	132	153	219	197	190
Typhoid Fever	17	26	16	18	17
Apoplexy and Paralysis....	118	75	140	106	108
Old Age	52	56	34	40	40
Diseases of the brain (un-					
classified)	18	92	35	49	41
Convulsions	19	25	43	45	41
Diseases of the Kidneys....	85	104	77	82	73
Meningitis	59	63	73	67	65
Diphtheria and Croup	34	34	76	117	27
All other causes	421	559	488	561	500
Total for the year.....	1736	1898	1935	2038	1849

VITAL STATISTICS.

	1904	1903	1902	1901	1900
Deaths, male	860	945	971	1010	947
Deaths, female	876	953	964	1028	902
	<hr/> 1736	<hr/> 1898	<hr/> 1935	<hr/> 2038	<hr/> 1849

Children under one year....	498	554	519	539	512
Children under two years...	590	660	618	657	608
Children under five years...	673	738	738	799	687
Per cent. of total deaths					
under five years	38.8	38.8	38.1	39.2	37.1

Birthplace.	Of Deceased.	Of Parents.
Lowell	818	170
Massachusetts, elsewhere	95	176
Other states	262	486
Ireland	271	1062
Canada	155	913
Great Britain	75	241
Other Countries	49	234
Unknown	11	190
Total	<hr/> 1736	<hr/> 3472

PLACES OF DEATH.

Ward 1	138
Ward 2	141
Ward 3	157
Ward 4	146

PLACES OF DEATH—Continued.

Ward 5	138
Ward 6	170
Ward 7	347
Ward 8	121
Ward 9	127
Almshouse	97
Lowell Hospital	53
Lowell General Hospital	25
St John's Hospital	74
Small Pox Hospital	1
Emergency Hospital	1
	<hr/>
	1736
Still Births during the year.....	143

PLACES OF INTERMENT.

St. Patrick's Cemetery	648
Edson Cemetery	365
Lowell Cemetery	85
St. Joseph's Cemetery	427
St. Peter's Cemetery	64
Other Cemeteries	3
Removed	144
	<hr/>
	1736

DEATHS IN 1904, COMPARED WITH 1903.

	Decrease.	Increase.
Cholera Infantum and other diarrhoeal diseases		67
Phthisis and other Tuberculoses.....		11

DEATHS IN 1904, COMPARED WITH 1903—Continued.

	Decrease.	Increase.
Pneumonia and Bronchitis	16	
Congenital Debility		8
Heart Disease	21	
Typhoid Fever	9	
Apoplexy and Paralysis		43
Old Age	4	
Diseases of the brain (unclassified).....	74	
Convulsions	6	
Diseases of the Kidneys	19	
Meningitis	4	
Diphtheria and Croup		
All other causes	138	
	<hr/>	<hr/>
	291	129
Total decrease	162	

DEATH RATE.

	Year.	Population.	Deaths.	Death Rate.
Population, census	1890	77,696	1959	25.21
estimated.....	1891	79,029	1972	24.95
estimated.....	1892	80,361	2224	27.67
estimated.....	1893	81,694	2094	25.62
estimated.....	1894	83,026	1775	21.28
census	1895	84,359	1857	22.01
estimated.....	1896	85,700	1901	22.18
estimated.....	1897	87,000	1855	21.33
estimated.....	1898	87,000	1808	20.78
estimated.....	1899	90,114	1848	20.50
census.....	1900	94,969	1849	19.47
estimated.....	1901	94,969	2038	21.45
estimated.....	1902	99,574	1935	19.43
estimated.....	1903	101,959	1898	18.61
estimated.....	1904	104,402	1736	16.62

MORTALITY REPORT FOR THE CITY OF LOWELL, FOR THE YEAR ENDING 1904

Population.....104,402.

Rate per 1,000.....16.62

CAUSES OF DEATH.	AGE BY YEARS.											MALE.	FEMALE.	
	TOTAL FOR 1904.													
	Under 1.	1 to 5.	Total Under 5 Years.	5 to 10.	10 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 and Over.			
DEATHS FROM ALL CAUSES.														
Deaths from all causes.....	498	175	673	34	65	124	134	127	170	192	217	860	876	
General Diseases.....	28	46	74	12	26	56	42	37	44	34	25	155	195	
Diseases of the Nervous System and of the Organs of Sense.....	34	36	70	5	6	10	11	11	28	38	35	104	110	
Diseases of the Circulatory Apparatus.....	4	50	4	1	4	6	9	19	24	37	45	65	91	
Diseases of the Respiratory Apparatus.....	76	38	126	3	10	20	19	23	31	20	26	151	127	
Diseases of the Digestive Apparatus.....	197	38	235	5	11	12	16	13	14	23	10	173	166	
Diseases of the Genito-Urinary Apparatus.....	.....	1	1	.....	2	11	12	10	18	24	19	47	50
Puerperal State.....	.....	.....	.....	.....	.....	5	3	.....	.....	.....	.....	7	8
Diseases of the Skin and Cellular Tissue.....	.....	.....	.....	.....	1	.....	1	1	.....	3	5	7	.....
Diseases of the Organs of Locomotion.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
Malformations.....	9	.....	9	.....	.....	.....	.....	.....	.....	.....	.....	7	.....
Early Infancy.....	147	1	148	.....	.....	.....	.....	.....	.....	.....	.....	76	72
Old Age.....	52	.....	.....	.....	.....	.....	.....	.....	.....	7	45	19	33
Affections produced by External Causes.....	62	3	3	8	5	4	13	12	8	5	4	47	15	
Ill-defined Diseases.....	11	.....	2	.....	.....	.....	1	1	3	1	3	8	3

CAUSES OF DEATH.	AGE BY YEARS.												FEMALE.
	TOTAL FOR 1904.	AGE BY YEARS.										MALE.	
		Under 1.	1 to 5.	Total Under Years.	5 to 10.	10 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.			70 and Over.
GENERAL DISEASES.													
1. Typhoid Fever.....	17	...	...	3	3	3	3	3	3	2	...	5	12
4. Intermittent Fever.....	1	...	...	...	...	...	...	...	...	...	...	1	1
5. Variola.....	1	...	...	...	...	...	...	...	...	...	...	1	1
6. Measles.....	14	6	8	...	...	...	...	...	...	...	...	2	6
7. Scarletina.....	5	2	5	...	...	...	...	...	...	...	...	2	3
8. Whooping Cough.....	2	1	4	...	...	...	...	...	...	...	...	1	1
9. Diphtheria and Croup.....	5	2	1	...	...	...	...	...	...	...	...	2	2
9a. Diphtheria.....	29	17	19	8	2	...	...	...	...	...	...	13	16
10. Grippe.....	5	1	1	...	...	...	...	...	...	...	3	3	2
13. Cholera Nostras.....	1	1	1	...	...	...	...	...	...	...	...	1	1
14. Dysentery.....	5	...	...	...	...	...	...	...	...	...	...	2	3
18. Erysipilas.....	2	...	...	...	...	...	...	...	...	...	...	...	1
20. Purulent Infection and Septicaemia.....	8	1	1	...	...	...	...	...	...	3	1	1	2
26. Tubercle of the Larynx.....	3	...	2	...	1	1	1	1	1	...	...	1	2
27. Tubercle of the Lungs.....	121	8	9	1	18	40	21	16	12	3	1	59	62
28. Tubercle of the Meninges.....	8	4	6	...	...	...	...	...	...	...	...	7	1
29. Tubercle Abdominal.....	9	2	6	...	...	...	...	...	...	...	...	5	4
33. Tubercle of Other Organs.....	11	4	...	...	...	...	...	...	...	...	...	1	1
34. Tubercle Generalized.....	1	...	...	...	...	...	...	...	...	...	...	...	1
36. Syphilis, hereditary.....	1	...	1	...	...	...	...	...	...	...	...	...	1
39. Cancer and other malignant tumors of the Buccal Cavity.....	5	...	...	...	...	...	...	...	...	...	...	...	1
40. Cancer and other malignant tumors of the stomach and liver.....	17	...	...	...	...	...	...	...	...	...	1	4	1
41. Cancer and other malignant tumors of the peritoneum, intestines, and rectum.....	6	...	...	...	...	...	...	...	...	7	3	8	9
		...	...	...	...	...	...	...	...	1	1	3	3

CAUSES OF DEATH.	TOTAL FOR 1904.	AGE BY YEARS.												MALE.	FEMALE.
		Under 1.	1 to 5.	Total Under 5 Years.	5 to 10.	10 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 and Over.			
GENERAL DISEASES—Continued.															
42. Cancer and Other Malignant Tumors of the Genital Organ of the Female.....	9	...	...	...	...	...	...	...	3	3	1	2	9
43. Cancer and other Malignant Tumors of the Breast.....	4	...	...	...	...	...	...	...	1	1	1	1	4
45. Cancer and other Malignant Tumors of organs not specified.....	23	...	...	...	...	...	2	3	7	4	2	5	15
46. Other Tumors (Tumors of the female genital organs excepted).....	1	...	...	...	...	...	...	1	1	2	...	...	1
47. Rheumatism, acute, articular.....	6	...	2	2	...	...	1	...	...	2	2	...	2
48. Rheumatism, chronic and gout.....	5	...	...	...	...	...	...	...	2	2	2	1	2
50. Diabetes.....	13	...	...	...	...	1	...	1	...	2	7	2	9
54. Anaemia, chlorosis.....	15	1	...	1	...	1	3	1	1	3	4	1	12		
56. Alcoholism, acute and chronic.....	7	...	...	...	...	...	1	3	2	1	...	...	2
II.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SENSE.															
61. Meningitis, simple.....	54	19	23	42	2	2	4	1	...	1	1	1	33		
61a. Meningitis, epidemic cerebro spinal.....	5	2	2	4	1	...	...	...	...	...	...	...	3
62. Locomotor Ataxia, progressive.....	3	...	...	...	...	...	...	...	2	1	...	...	3
63. Other diseases of the spinal cord.....	2	...	...	...	1	...	...	...	1	...	...	...	...
64. Cerebral Congestion and Hemorrhage.....	91	2	...	2	1	1	4	8	7	23	23	22	38		
65. Cerebral softening.....	2	...	...	...	...	...	...	...	...	...	...	...	...
66. Paralysis, without cause assigned.....	20	...	1	1	...	...	1	...	1	1	7	2	1
67. General Paralysis.....	5	...	...	...	...	...	...	...	...	...	...	...	...
69. Epilepsy.....	3	...	...	...	...	...	...	...	...	...	...	...	...
70. Eclampsia (non-puerperal).....	1	...	...	...	...	...	...	...	...	...	...	...	...
71. Convulsions of children.....	19	11	8	19	...	...	...	1	...	1	...	...	1
73. Chorea.....	1	...	...	...	...	...	...	...	...	...	...	...	...
74b. Other affections of the nervous system.....	4	...	...	...	...	...	...	1	...	...	...	...	1
75. Diseases of the Eye and Appendages.....	1	...	...	...	...	...	...	...	...	...	3	...	1
76. Diseases of the Ear.....	3	...	2	2	...	1	...	...	...	...	1	...	2

[illegible]

XI.—EARLY INFANCY.													
151. Congenital Debility, Icterus and Sclerema.....	145	144	1	145	..	..	..	..	..	..	..	75	70
152. Other diseases appertaining to infancy	3	3	..	3	..	..	..	..	..	..	..	1	2
XII.—OLD AGE.													
154. Senile Debility	52	..	..	..	..	..	..	..	..	7	45	19	33
XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.													
155. Suicide by Person	1	..	..	..	..	..	..	1	..	..	..	1	..
156. Suicide by Asphyxia	2	..	..	..	..	..	..	..	..	..	..	..	2
157. Suicide by Hanging or Strangulation	1	..	..	..	..	..	..	1	..	1	..	..	..
159. Suicide by Firearms	5	..	..	..	..	..	..	..	..	2	..	5	..
163. Other Suicides	1	..	..	..	..	..	..	..	..	..	..	1	..
164. Fractures	3	..	..	..	..	..	..	..	..	..	..	2	..
166. Other Accidental Traumatisms	17	..	1	1	..	3	..	2	..	..	2	12	5
167. Burns and Scalds	6	..	1	1	..	1	..	1	..	1	..	..	6
169. Insolation	1	..	1	1	..	1	..	..	..	..	..	..	..
172. Accidental Submersion	14	..	1	1	..	7	..	..	..	..	..	14	..
174. Absorption of Deleterious Gases (suicide excepted) ..	9	..	..	..	..	1	..	..	..	1	1	8	1
175. Other acute poisonings	2	..	..	..	..	..	..	..	..	..	..	2	..
XIV.—ILL-DEFINED DISEASES.													
177. Dropsy	1	..	..	..	..	..	..	..	..	..	..	..	1
178. Sudden Death	1	..	..	..	..	..	..	..	..	..	..	1	..
179. Non-Specified or Ill-Defined Causes of Death	9	2	..	2	..	..	..	..	..	1	2	7	2

COLLECTION OF ASHES.

	1904	1903	1902
January	2260 loads	1727 loads	2660 loads
February	2360 loads	1564 loads	2451 loads
March	2378 loads	1804 loads	2578 loads
April	2236 loads	1725 loads	2556 loads
May	1825 loads	1506 loads	1950 loads
June	1329 loads	1300 loads	1300 loads
July	1056 loads	1331 loads	1243 loads
August	1160 loads	1200 loads	1200 loads
September	1200 loads	1202 loads	1189 loads
October	1349 loads	1414 loads	1414 loads
November	1652 loads	1537 loads	1245 loads
December	1997 loads	2033 loads	1456 loads
	<hr/> 20,802 loads	<hr/> 18,343 loads	<hr/> 21,242 loads

Cost of Collection.

Labor Pay Roll.

1891	\$ 8,001 19
1892	9,857 42
1893	11,542 94
1894	12,087 93
1895	10,591 40
1896	11,311 25
1897	12,793 15
1898	11,209 70
1899	10,903 30
1900	10,665 35
1901	10,651 28
1902	10,454 80
1903	9,691 50
1904	10,714 95

536 loads paper.

MARKET AND HOSPITAL REFUSE BURNED AT

CREMATOR JAN. 1, 1904 to 1905.

12 tons hospital refuse.
 291 tons market refuse.
 56 dogs.
 61 cats.
 40 mattresses.
 11 loads bedding.
 4 barrels clothing.
 10 pillows.
 2 lounges.

NUMBER OF LOADS SWILL COLLECTED.

	1904	1903	1902
January	353	333	322
February	321	282	280
March	328	291	286
April	298	296	301
May	315	308	308
June	329	328	312
July	335	335	367
August	443	369	307
September	480	429	456
October	386	384	419
November	357	317	315
December	407	359	362
	<hr/>	<hr/>	<hr/>
	4352	4031	4035

Total collections for 1904..... 4352 loads
 Total collections for 1903..... 4031 loads
 Total collections for 1902..... 4035 loads
 Total collections for 1901..... 3861 loads
 Total collections for 1900..... 4217 loads

SWILL ACCOUNT.

	1904	1903	1902	1901
January	\$ 253 12	\$ 331 25	\$ 203 00	\$ 242 00
February	218 87	228 12	222 00	145 00
March	241 88	284 12	180 00	276 00
April	232 50	259 74	220 50	239 70
May	201 88	212 99	308 88	261 00
June	251 88	251 23	228 13	365 00
July	256 75	248 74	255 00	161 00
August	310 00	289 36	308 62	217 00
September.....	372 75	319 99	257 49	160 00
October	326 93	286 23	322 87	210 00
November	321 25	242 49	234 23	228 50
December	199 60	220 61	343 00	328 00
Swill Permits ..	185 00	125 00	161 00	175 00
Swill Licenses....	135 00			
	<u>\$3,507 41</u>	<u>\$3,299 87</u>	<u>\$3,244 72</u>	<u>\$3,008 20</u>

Swill Exchanged

for Hay	\$2,047 84	1,584 72	883 77	895 04
	<u>\$5,555 25</u>	<u>\$4,884 59</u>	<u>\$4,128 49</u>	<u>\$3,903 24</u>

SWILL LICENSES.

Lowell Rendering Co.

John H. FarrisLowell
 C. A. HamblettDracut
 Charles DadianBillerica
 Fenwick NicholsDracut
 J. P. EatonChelmsford
 C. A. HamblettLowell
 McDonald Bros.Lowell

SWILL LICENSES—Continued.

W. H. Barnes	Dracut
Joseph Viere	Lowell
Mrs. Nellie M. Remmes	Lowell
Herbert Parker	Dracut
W. F. Richardson	Pelham
Charles A. Jackson.....	Dracut
J. R. Hayes	Dracut
James B. Carr	Chelmsford
Whitman & Pratt	Dracut
R. N. Maker	Dracut
O. S. Cummings.....	Tyngsboro.
Joseph Bowers	Lowell
Antonia Paiva	Lowell
George H. Stevens	Dracut
Harry F. Adams	Chelmsford
Independent Refining Co.	Dracut

PERMITS TO TRANSPORT FROM YARD.

C. D. Kent	Pelham
Louis Daigle	Dracut
A. Bouchard	Dracut
E. H. Choquette & Son.....	Dracut
Dracut Poor Farm	Dracut
H. C. Greene	Chelmsford
Paul Vigeant	Lowell
N. C. Clairmont	Dracut
W. H. Peabody	Pelham
Fred U. Haskell	Dracut
Thomas H. Sherlock	Dracut
E. A. Gould	Dracut
C. O. Robbins	Chelmsford

PERMITS TO TRANSPORT FROM YARD.—Continued.

P. A. Bruorton	Billerica
Thomas Gourgeon	Dracut
E. C. Perham	Chelmsford
G. W. Kenwick	Westford
Patrick Cogger	Lowell
O. J. Coburn	Dracut
John P. Tully	Dracut
Geo. E. Spaulding	Chelmsford
Daniel E. Cameron	Dracut
John M. Graves	Dracut
J. A. Davis	Dunstable
C. H. Parker	Dracut
Charles A. Jackson	Dracut
Vinton McNutt	Chelmsford
William E. Riggs	Wigginville
J. B. Noel	Chelmsford
Mrs. Charles Jones	Dracut
O. P. Coburn	Dracut
J. J. McManmon	Dracut
H. T. Wheeler	Dracut
Charles Shugrue	Westford
C. E. Guthrue	Dracut
Charles E. Bunker	Dracut
J. L. Gregoire	Dracut
Joseph Albert	Dracut

Cost of Collecting Swill. Labor Pay Roll.	Disposition of Swill.	Income from Swill.	Cost of Burning.	Amount Burned.	Total Cost Collection and Cremation of Swill and Garbage.
1884. No Analysis	Sold.	\$2,671 85			
1885. "	"	3,711 38			
1886. "	"	4,342 00			
1887. "	"	3,604 00			
1888. "	"	2,739 85			
1889. "	"	2,948 52			
1890. "	"	3,166 00			
1891. "	"	3,945 57			
1892. \$6,000 00	Burned	3,239 92	Cost of Cremator [\$8,000 00]		\$13,593 02
1893. 5,593 02	"		7,670 77	3500 tons.	14,693 43
1894. 7,022 66	"		5,742 69	3486 "	12,864 69
1895. 7,122 00	"		3,662 53	2750 "	10,698 50
1896. 7,035 97	"		3,543 34	2810 "	10,408 01
1897. 7,064 67	"		2,612 07	2629 "	9,846 07
1898. 7,234 76	Part Burn'd and	2,445 40	1,644 21	874 "	9,302 41
1899. 7,758 20	Part Sold.	3,547 00	1,397 86	105 "	8,591 16
1900. 7,193 30	All Sold	3,368 00			
		{ Cash 3,368 00	1,094 65	109 "	8,177 95
		{ Hay 840 72		35 "	
		{ Cash 2,835 20		{ 347 tons	
1901. 7,027 75	"	{ Hay 780 04	1,081 14	{ Markets	7,404 64
		{ Buggy 83 00			
		{ Manure 32 00			
1902. 7,259 00	"	{ Cash 3,244 72		{ 11 Tons	
		{ Hay 883 77	1,166 69	{ Swill	8,425 69
		{ Cash 3,299 87		{ 415 Tons	
1903. 8,178 93	"	{ Hay 1,584 72		{ Markets	
		{ Manure 100 95	1,191 86	{ 600 Tons	9,370 79
		{ Cash 3,507 41		{ Markets	
1904. 8,324 70	"	{ Hay 2,047 84	992 92	{ 303 Tons	
				{ Markets	9,317 62

1904. FINANCIAL STATEMENT—EXPENDITURES.

Pay Rolls. Office.

January	\$ 567 00
February	539 00
March	539 00
April	673 75
May	539 00
June	539 00
July	673 75
August	539 00
September	539 00
October	673 75
November	539 00
December	673 75
	<hr/>
	\$7,035 00

Pay Rolls. Yard.

January	\$ 2,402 95
February	2,254 21
March	2,239 35
April	2,771 15
May	2,158 20
June	2,099 10
July	2,668 20
August	2,119 40
September	2,180 40
October	2,678 75
November	2,182 50
December	2,719 30
	<hr/>
	\$28,473 51

Small Pox, \$163.75.

ANALYSIS OF PAY ROLLS OF 1904 COMPARED WITH
1903.

	1904	1903	Decrease.	Increase.
Ashes	\$10,714 95	\$ 9,691 50		\$1,023 45
Swill	8,324 70	8,178 93		145 77
Alleys and Dumps	3,554 05	3,401 40		152 65
General Inspec- tion	2,041 00	2,041 00		
Contagious In- spection ...	1,281 00	1,277 50		3 50
Repairs	4 50	117 57	113 07	
Inspector of Plumbing ..	1,099 00	1,095 50		3 50
Blacksmith ..	797 50	947 65	150 15	
Stable	2,297 56	2,269 62		27 94
Agent	1,830 00	1,825 00		5 00
Registrar	628 00	653 25	25 25	
Cremator	706 50	704 25		2 25
Small Pox	163 75	61 50		102 25
Fumigation ..	816 00	815 00		1 00
Foreman	1,257 75	1,192 50		65 25
Meat Inspector	156 00	-----		156 00
	<hr/>	<hr/>	<hr/>	<hr/>
	\$35,672 26	\$34,272 17	\$288 47	\$1,688 56
Total Increase			\$1,400 09	

ANALYSIS OF BILLS, 1904.

OFFICE SUNDRIES.

Advertising	\$ 10 08
Board of Health Signs	31 51
Bacteriological Department	95 21
City of Worcester	37 14
Coal	14 00
Cremator	35 18

ANALYSIS OF BILLS, 1904—Continued.

Culture Taking	202 50
Express	11 35
Fumigating Supplies	73 51
Gas Investigation	200 00
Lowell Hospital	490 49
Medical Services	449 00
Mileage	20 00
Massachusetts Ass'n Board of Health..	8 00
New Horse	175 00
Plumbing Association	11 44
Printing Annual Report	87 54
Printed Supplies	226 15
Rent of Cremator	75 00
Repairing Small Pox Hospital	7 20
Small Pox Bills	42 85
Sundries	173 67
Stamps and Stamped Envelopes	57 50
Telephone	13 95
Vaccine	72 99
	<hr/>
	\$2,621 26

YARD.

Blacksmith's Supplies	\$ 259 00
Corn and Meal	113 06
Canvas Covers	36 00
Cremator	155 34
Electric Lights	27 10
Fumigating Supplies	27 39
Hay	25 50
Hardware	61 96
Harness Supplies	152 58

ANALYSIS OF BILLS, 1904—Continued.

Lumber	134 61
New Harnesses	110 00
New Wagon Wheels	323 04
New Wagon	76 75
New Wagon Supplies	63 14
Oats	2,311 88
Repairs at Crematory	20 90
Repairing Ambulance	25 70
Repairing Harnesses	34 70
Repairing Goddard Buggy	5 75
Repairing Wagon	52 30
Straw	336 08
Sundries	538 90
Veterinary Services	60 00
Water Department	96 75
	<hr/>
	\$5,048 43

INCOME TRANSFERRED TO GENERAL FUND.

Swill	\$3,187 41
Swill Permits	185 00
Swill Licenses	135 00
Waste Paper	62 50
Town of Chelmsford	114 28
City of Worcester	18 57
Rent of Bill Boards	26 67
State, Small Pox	407 88
	<hr/>
	\$4,137 31

Total to General Fund 1904	\$4,137 31
Total to General Fund 1903	4,085 12
Total to General Fund 1902	6,103 87
Total to General Fund 1901	4,585 26
Total to General Fund 1900	3,647 03
Total to General Fund 1899	3,796 05

SUMMARY

OFFICE

	Expendi- tures	Appropri- ations	Receipts	Balance	Deficit
Salaries of Board	\$1,500 00				
Salary of Dr. Smith...	600 00				
Pay Rolls, Office.....	7,035 00				
	<hr/>				
	\$9,135 00	\$9,161 25		\$26 25	
Bills.....	2,621 26	2,200 00	\$175 70		\$245 56

YARD

Pay Rolls.....	28,637 26	28,355 00	163 75		118 51
Bills	5,048 43	5,000 00			48 43

SMALL POX

Total Cost.	1,010 02	489 50			520 52
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	\$46,451 97	\$45,205 75	\$339 45	\$26 25	\$933 02

COST OF HEALTH DEPARTMENT FOR THE YEAR 1904.

SALARIES

Salaries of Board	\$ 1,500 00
Salary of Bacteriologist.....	600 00
Pay Rolls, Office	7,035 00
Pay Rolls, Yary.....	28,637 26
Bills, Small Pox.....	1,010 02
Bills, Office.....	2,621 26
Bills, Yard	5,048 43
	<hr/>
	\$46,451 97

APPROPRIATIONS

Office Salaries	\$ 9,161 25
Office Sundries	2,200 00
Yard Labor.....	28,355 00
Yard Sundries	5,000 00
Small Pox	489 50
	<hr/>
	\$45,205 75
Receipts.....	339 45
Deficit.....	933 02
	<hr/>
	\$46,478 22
	26 25
	<hr/>
	\$46,451 97

Our horses were examined Dec. 24th, by Dr. Sherman, as per the following list:

1.	Bay Horse, "Sam," 16 years	\$ 30 00
2.	Black Horse, "Daddy," 17 years.....	60 00
3.	Brown Horse, "Billy," 14 years.....	120 00
4.	Black Horse, "Harry," 14 years.....	80 00
5.	Bay Horse, "Peter," 15 years.....	15 00
6.	Bay Mare, "Bridget," 12 years.....	25 00
7.	Bay Horse, "Jack," 12 years.....	100 00
8.	Bay Mare, "Sue," 14 years.....	20 00
9.	Black Horse, "Major," 12 years.....	100 00
10.	Bay Horse, "Baldy," 16 years.....	105 00
11.	Bay Horse, "Fred," 17 years.....	90 00
12.	Brown Mare, "Kate," 14 years.....	30 00
13.	Brown Mare, "Maggie," 17 years.....	10 00
14.	Bay Horse, "Duke," 18 years.....	40 00
15.	Gray Mare, "Grace," 12 years.....	120 00
16.	Black Horse, "Nigger," 13 years.....	40 00
17.	Bay Horse, "Joe," 13 years.....	120 00
18.	Gray Mare, "Mollie," 15 years	100 00
19.	Bay Mare, "Helen," 9 years	150 00
20.	Bay Horse, "Ned," 11 years.....	150 00
21.	Bay Horse, "Moxie," 10 years.....	105 00
22.	Black Horse, "Tom" 8 years.....	100 00
23.	Black Horse, "John," 9 years.....	105 00
24.	Sorrel Horse, "Doctor," 17 years.....	65 00
25.	Gray Horse, "Tom," 15 years.....	15 00
26.	Bay Horse, "George," 9 years.....	115 00
27.	Bay Mare, "Sarah," 9 years.....	135 00
28.	Bay Mare, "Mollie," 7 years	165 00
29.	Bay Horse, "Tom," 10 years.....	65 00
30.	Brown Horse, "Jim," 10 years.....	140 00

31. Bay Mare, "Grace," 7 years.....	175 00
	<hr/>
	\$2,690 00

At least six of the above horses are unfit for service, and for the credit of the city should be replaced with younger animals.

WAGONS AND SLEDS.

1 Ambulance	\$ 175 00
1 Hospital Wagon.....	15 00
10 Double Ash Carts at \$100.....	1,000 00
5 Single Ash Carts at \$50.....	250 00
8 Double Ash Sleds at \$70.....	560 00
4 Single Ash Sleds at \$50.....	200 00
10 Single Swill Sleds at \$50.....	500 00
1 Double Swill Wagon.....	50 00
11 Single Swill Wagons at \$50.....	550 00
2 Coupes	425 00
2 Paper Wagons at \$100	200 00
1 Sleigh	15 00
2 Pungs at \$35.....	70 00
1 Concord Wagon	40 00
2 Moyer Buggies at \$100.....	200 00
2 Goddard Buggies	315 00
1 Covered Sleigh	20 00
2 New Paper Sleds at \$75.....	150 00
	<hr/>
	\$4,735 00

HARNESSES AND ROBES.

1 Set Double Harnesses for ambulance..	\$ 25 00
2 Sets Single Harnesses for ambulance..	25 00
10 Single Harnesses at \$20.....	200 00
10 Double Harnesses at \$20.....	200 00
35 Halters	8 00
4 Horse Covers	14 00
2 Woolen Robes	8 00
32 Baker Stable Blankets.....	110 00
3 Street Blankets	12 00
1 Rubber Lap Robe	2 00
15 Surcingles	2 50
20 Curry Combs and Brushes.....	10 00
10 Canvas Covers for ash carts.....	30 00
12 Mane Brushes	2 00
3 Under Harness Street Blankets.....	21 00
2 Large Canvases	10 00
2 Sponges	1 50
1 Extra Heavy Saddle	20 00
13 Collars	50 00
9 Collar Pads	4 50
3 Buffalo Robes	25 00
9 Harness Pads	1 00
8 Zinc Pads	1 00
1 Sheepskin	2 00
4 Sets Reins	5 00
5 Trace Girths	2 00
6 Shaft Lugs	2 00
4 Sets Hold-back Straps.....	2 00
4 Saddle Girths	2 00
4 Summer Blankets	3 00
33 Stall Straps	7 00
17 String Bells	12 00
4 Light Harnesses	100 00
32 Square Shovels	16 00
	<hr/>
	\$935 50

SUMMARY.

Horses	\$2,690 00
Wagons and Sleds	4,735 00
Harnesses and Robes	935 50
Miscellaneous	200 00
Carpenter Shop	300 00
Blacksmith Shop	350 00
Smallpox Hospital	500 00
	<hr/>
	\$9,710 50

At the Yard of the Department there are employed

1 Foreman	\$3 50 per day
1 Blacksmith	2 75 per day
1 Carpenter	2 50 per day
1 Fumigator	2 50 per day
3 Hostlers and Watchmen	2 00 per day
10 Ash Teamsters	2 00 per day
10 Ash Helpers	1 80 per day
7 Swill Teamsters	2 00 per day
7 Swill Helpers	1 80 per day
2 Paper Teamsters	2 00 per day
2 Paper Helpers	1 80 per day
2 Dump Men	1 80 per day

The above force work, rain or shine, every day in the year excepting Christmas and the Fourth of July. In the collection of ashes, all the teams and men are sent into the old six wards which gives them one day each week to remove all the ashes in the city.

Year	Population	Expenditures	Revenue	Net Cost	City's Valuation	Taxation Per Capita
1894	83,026	157,073 73	318 43	56,755 30	69,091,536	.63
1895	84,359	46,324 04	570 80	45,753 24	68,885,732	.54
1896	85,700	45,587 11	265 57	45,321 54	69,910,472	.53
1897	87,000	48,551 84	2,369 99	46,181 85	70,389,280	.53
1898	87,000	41,026 78	3,229 02	37,779 76	70,977,303	.43
1899	90,114	40,830 23	3,796 05	37,034 18	71,255,587	.41
1900	94,969	246,266 11	3,647 03	42,619 08	71,529,515	.44
1901	94,969	46,673 41	4,585 26	42,088 15	71,674,588	.44
1902	99,574	354,815 33	6,103 87	48,711 46	71,903,757	.48
1903	101,959	446,168 01	4,085 12	42,082 89	72,004,028	.41
1904	104,402	546,451 97	4,137 31	42,314 66	71,614,907	.40

1. Smallpox and Swill Cremation, 12,708 25
2. Smallpox, \$4,739 67
3. Smallpox, 6,626 20
4. Smallpox, 1,000 00
5. Smallpox, 1,010 02

The Department have in use, Jan. 1, 1905, as dumping grounds for the Ash Collection:—

- Land owned by Locks and Canals, Aiken St.
 - Land owned by E. B. Peirce, Cambridge St.
 - Land owned by Boyle Bros., Middlesex, cor Pawtucket St.
 - Land owned by E. A. Smith, Waverly Ave.
 - Land owned by Agricultural Society, Gorham St.
 - Land owned by Viola Wilson, Leverett St.
 - Land owned by Locks and Canals, Stackpole St.
 - Land owned by Percy Parker Estate, Richardson St.
 - Land owned by J. W. Bennett Estate, Tanner St.
 - Land owned by J. P. Mahoney, State St.
 - Land owned by Conners Bros., Plain St.
 - Land owned by D. Gage Estate, Mammoth Road.
 - Land owned by C. I. Hood, Andover St.
 - Land owned by J. F. Holden, Westford St.
 - Land owned by D. Gage Estate, Broadway, cor Pawtucket St.
-

The swill collections are made twice each week, every team having three different routes. While there is more swill in summer than in winter, the freezing of the buckets at houses makes it necessary to provide ice chisels to cut out the swill, thereby taking more time to cover the different routes. As cities grow in population, the collection and disposal of the municipal waste becomes a costly and serious problem. Lowell in 1891 put into use an Engle Cremator, costing eight thousand dollars (\$8,000.00) for the purpose of burning the collections made by the Health Department teams, and for three years the experiment was maintained. It was found to be a very costly procedure, and it was gradually discontinued until for the last four years all the swill has been sold to farmers as food for swine. We have no evidence that it injures the quality of pork made and as the result of our experience, with particular reference to its cost, the present Board are not favorably inclined towards its cremation. But when the

Cremator went into commission, personal notice was served upon every provision and fish dealer that the refuse made by them must be taken to the plant, and they were forbidden to deposit any upon the dumping grounds that are used by the department for ashes and rubbish. Since the plant has been unused for swill, it has always taken care of large quantities of very offensive material, as well as all the dead animals. After a presentation of the conditions to the Mayor and City Council of 1904, they provided by a loan Ten Thousand Dollars (\$10,000.00) to be expended by the Board in 1905 for the purpose outlined above.

Garbage when fresh is clean and has little or no odor. It is only when it has arrived at a good old age that it becomes offensive. From a sanitary standpoint, there is as much danger lurking in dry refuse as there is in swill, on account of flying dust. There are many probabilities of infection in dry refuse from tenement houses, old paper, rags, clothing, shoes, mattresses and hospital waste, and great care is used to prevent the indiscriminate dumping of such stuff on vacant lots used for ash disposal.

The Board hopes that during 1905, with the assistance given by a new Cremator, in a changed location nearer the geographical center of the city, the refuse can be destroyed at a less cost than at present and the Ash Dumps kept free from objectionable material. Before asking for sealed proposals, it is expected that some representative of the Board will examine thoroughly one or more of the plants in operation, built by the different competitors.

The list that seems to require personal investigation includes the following manufacturers:

Clinton Foundry Co., New York City.

Decarie Mfg. Co., Minneapolis, Minn.

The Dixen Garbage Co., Toledo, O.

Jarvis Engineering Co., Boston, Mass.

The Board hopes and expects to have a plant located and erected before the advent of warm weather in 1905.

An effort has been made to compare the methods and cost of the collection and disposition of swill and garbage in the different Massachusetts cities, but the systems and controls are so varied as to render any comparison of little value. The different departments which control, the difficulty in reducing to a comparable factor the reports given in tons, cubic feet and cords, and the uncertainty as to what is meant by cost as to whether it includes maintenance of horses and wagons, or simply pay-roll of labor employed, prevented the preparation of any tabulated comparison, but herewith is appended the results of the inquiry, which are valuable as far as they go, towards giving information upon a matter of importance to all citizens and tax-payers.

1904.

LOWELL.

Population 101,402, estimate. Health Department collects both swill and ashes.

Cost collecting ashes, labor pay roll....	\$10,714 95
Cost collecting swill, labor pay roll....	8,324 70
No income from ashes.	
From swill	5,555 25
Net cost of swill	<u>\$2,769 45</u>

4352 loads were collected and sold to farmers at Health Department Yard for transport to farms where it is used as food for swine.

1903.

WORCESTER.

Population, 127,286. Expenditures of Health Department, no collection of ashes or swill, \$30,401.98. The Pauper Department collects the swill and takes it to the City Farm where it is fed to swine, the City receiving the income from the sale of pork. Net cost of collection, \$6,363.02. About 9,000 tons swill.

Householders are required to remove the ashes at houses

to dumps provided by the Health Department at the householders' expense.

1903.

FALL RIVER.

Population, 112,000. The Street Department collects ashes. Could not give the cost. The swill is collected by contract, price \$12,000.00 per year. No income.

1903.

CAMBRIDGE.

Population, 98,639.

Ashes collected by Street Dept., cost... \$28,797 78

Swill collected by Health Dept.

Cost \$24,169 50

Income (fed to swine)..... 10,441 24

Net cost\$13,728 26

1903.

NEW BEDFORD.

Population, 75,000. Does not collect ashes. Has awarded contract to a Utilization Company to collect and dispose of swill; pays the Company annually \$23,000.

1903.

LYNN.

Population, 72,500. Collects both ashes and swill, Ashes cost \$16,664.99. Swill, \$13,532.05. Income from swill \$4,657.77. Total cost of department, \$49,244.82.

1903.

LAWRENCE.

Population, 70,000. Collects ashes and swill. Cost of ashes, \$17,000. Cost of swill, \$11,000. No income. Total cost of department, \$41,949.93.

1903. SPRINGFIELD.

Population, 69,389. Collects both ashes and swill. Cost of ashes, \$16,011.44. Cost of swill, \$13,271.69. Taken out of city and fed to swine, with an income to the city of \$1,335.

1903. SOMERVILLE.

Population, 67,000. Collects both ashes and swill. Cost of ashes, \$13,761.75. Cost of swill, \$11,982. Swill sold to contractor for \$1,100. Total cost to department, \$47,160.66.

1903. BROCKTON.

Population, 46,601. Health Department collects ashes. Pauper Department collects swill. Cost of collecting ashes, \$6,500. Cost of collecting swill, \$9,000. Income, sale of hogs, \$6,500. Net cost of swill collection, \$2,500.

1903. HOLYOKE.

Population, 50,000. Ashes and swill in charge of Board of Public Works. Cost of ashes, \$19,000. Cost of swill, \$2,200. No income.

1903. SALEM.

Population, 37,500. Health Department collects swill at a cost of \$7,067 and receives from contractor \$2,500.

1903. CHELSEA.

Population, 35,876. Health Department pays contractor on a three years' contract \$3,000 annually for collection of swill.

1903.

HAVERHILL.

Population, 38,600. Street Department collects ashes. Health Department collects swill by contract, cost \$2,700 per year. Fed to swine at Newton, N. H. Taken from city on cars. No income.

In conclusion, we wish to thank the Mayor and the City Council for their uniform courtesy during the past year and especially to express our lively appreciation for the appropriation of ten thousand dollars (\$10,000) for a new Cremator, in return for which we shall, on our part, spare no labor or time in giving the City the best Cremator within our power.

WILLIAM B. JACKSON, M. D.,

LEONARD HUNTRESS, M. D.,

WILLIAM C. DOHERTY,

Board of Health.

TABLE SHOWING RAINFALL IN INCHES BY MONTHS FOR TWENTY-FIVE YEARS, 1879-1904.

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1879.....	2 475	3 762	5 013	4 030	2 279	5 709	4 379	6 176	2 176	1 434	3 364	4 465	45 262
1880.....	4 359	3 944	3 005	2 375	2 676	1 702	6 518	3 156	1 529	2 823	1 841	5 581	36 519
1881.....	5 538	3 151	7 210	1 855	4 274	4 900	2 496	1 731	2 730	1 962	4 282	4 253	44 182
1882.....	4 521	5 773	3 019	1 674	4 904	2 789	1 677	0 984	7 313	2 312	1 011	2 027	38 010
1883.....	2 923	3 405	1 885	1 895	4 640	2 036	3 583	0 909	1 487	5 292	1 730	2 623	32 418
1884.....	4 914	5 793	5 013	4 110	3 684	3 064	3 198	3 977	0 924	1 945	2 328	5 149	44 039
1885.....	4 856	4 095	1 022	3 606	3 589	4 293	6 026	6 098	1 581	4 841	5 183	2 811	48 001
1886.....	6 765	6 535	3 338	1 966	3 587	1 859	3 512	3 128	3 963	4 781	4 901	4 444	46 829
1887.....	5 720	5 182	4 738	3 046	1 644	2 608	5 425	10 931	2 228	3 116	3 270	4 547	53 445
1888.....	4 601	4 303	6 519	3 782	3 890	2 809	3 057	4 857	7 966	6 780	5 983	5 379	39 915
1889.....	5 037	1 710	1 938	3 830	3 889	2 592	6 102	3 979	3 266	4 268	6 929	3 366	46 756
1890.....	2 766	3 767	6 833	1 987	5 660	3 530	3 447	4 856	4 457	7 705	1 584	4 466	51 067
1891.....	7 041	3 840	5 953	3 563	2 289	3 659	2 968	1 966	1 806	2 926	1 913	3 204	41 131
1892.....	5 389	2 742	2 643	0 628	5 861	4 444	2 321	4 304	1 973	3 378	5 829	1 106	38 618
1893.....	2 392	7 703	2 439	2 946	4 900	2 414	2 696	3 944	2 293	3 825	1 933	5 460	42 945
1894.....	3 349	3 502	1 268	3 757	4 359	0 372	2 998	0 925	3 027	3 641	3 519	3 838	34 375
1895.....	3 306	1 147	2 656	4 569	1 782	2 631	2 659	2 017	2 230	6 674	8 165	3 172	41 332
1896.....	2 243	4 647	6 510	1 335	2 316	2 683	3 786	2 759	9 066	2 995	3 023	1 126	42 201
1897.....	4 551	2 958	4 146	2 248	4 945	6 106	4 619	5 630	3 033	0 592	6 487	5 320	50 439
1898.....	8 124	3 457	1 652	5 201	3 053	3 649	2 930	8 226	1 970	7 846	6 447	2 744	54 289
1899.....	3 690	5 017	7 950	1 500	2 100	2 713	4 116	2 111	3 663	1 987	2 714	1 683	39 244
1900.....	5 451	10 119	6 566	2 156	3 785	2 710	2 648	3 730	4 368	3 326	6 181	3 033	54 068
1901.....	1 720	1 056	5 756	10 567	7 678	1 489	4 776	3 267	3 282	3 434	2 792	8 553	54 370
1902.....	2 968	6 265	5 281	5 475	2 366	2 107	3 563	5 159	6 29	5 288	0 856	6 204	51 110
1903.....	3 386	3 957	5 900	3 691	0 818	9 180	2 621	3 676	1 745	4 461	1 527	3 011	43 973
1904.....	4 838	2 438	2 648	9 316	2 983	3 995	1 827	3 207	5 512	1 282	1 506	2 330	41 882

ANNUAL REPORT

OF THE

SUPERINTENDENT OF STREETS

OF THE

CITY OF LOWELL

FOR THE YEAR 1904



LOWELL, MASS.
PRESS OF CHAS. E. ROBINSON

1905

STREET DEPARTMENT.

ORGANIZATION 1904

Superintendent, LAFOREST BEALS.
(from Jan. 1, to May 24.)

Acting Superintendent, FREDERICK W. FARNHAM
(from May 25, to Jan. 4, 1905.)

Assistant Superintendent Streets, GEORGE W. HARTWELL.

“ “ Sewers, ETHER S. FOSS.
(from Jan. 1, to April 20.)

“ “ DANIEL W. BUGBEE,
(from May 3, to Oct. 1.)

“ “ FRANK W. LAZELLE,
(appointed Oct. 3rd.)

Department Clerk, CLARENCE H. RAYMOND.

Book-keeper, FRANKLIN T. WILSON.

Inspector of Sewers, SAMUEL D. BUTTERWORTH

STREET COMMITTEE.

Alderman CARMICHAEL,
“ FAIRWEATHER.
Councilman BARRY,
“ SAMUEL FLEMING,
“ JAMES FLEMING,
“ HAYES.
“ PALM

SEWER COMMITTEE.

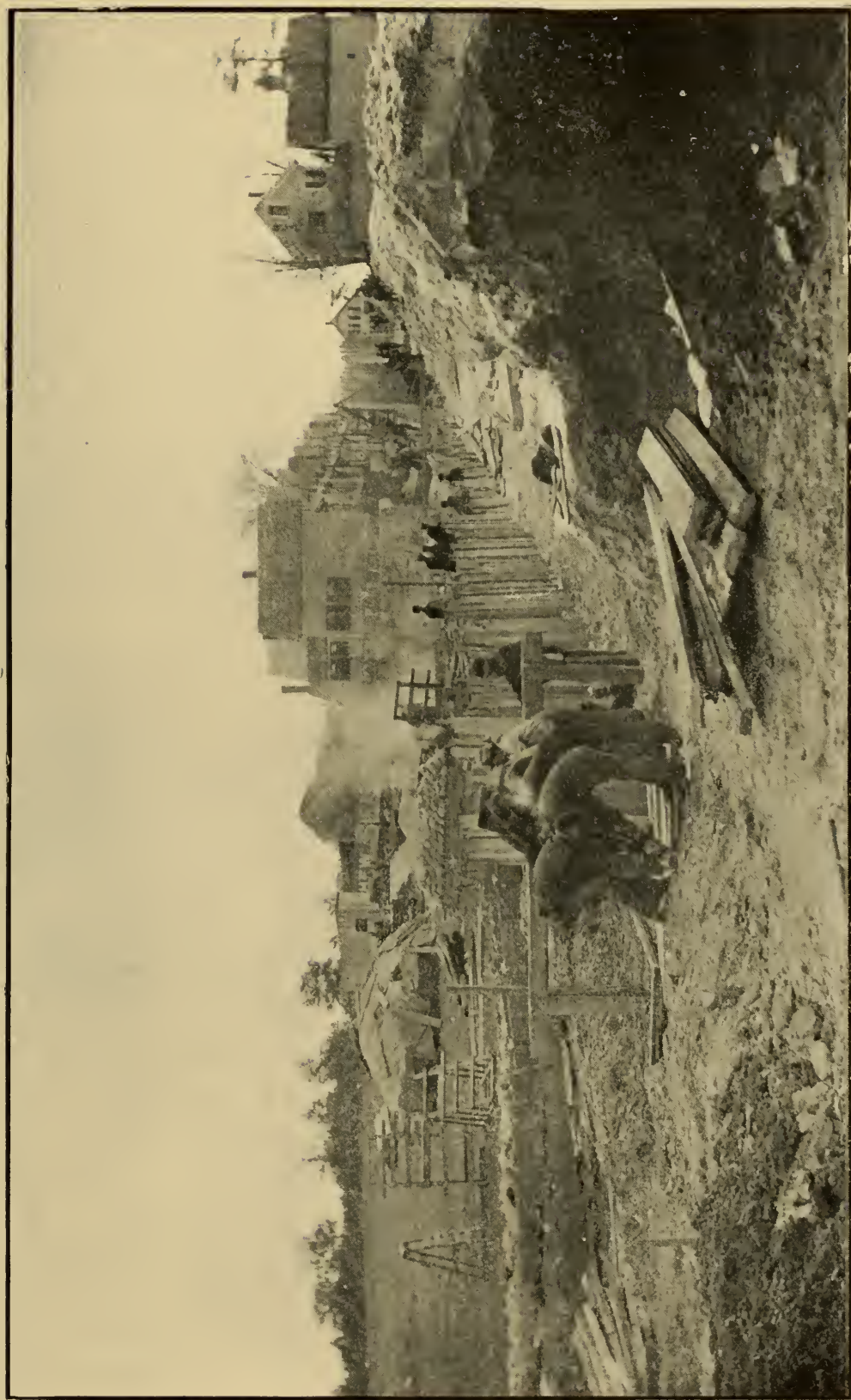
Alderman GEROW,
“ GRANT,
“ GALLAGHER.

CONTENTS.

	PAGES
Appropriations.....	6
Asphalt Pavement Repaired.....	51
Bridges.....	67-68
Cleaning Streets.....	7-12
Cleaning Streets, Recapitulation.....	30
Cinder Sidewalks.....	38-39
Concrete Crossings Repaired.....	40
Concrete Pavement Repaired	41
Concrete Sidewalks Repaired.....	42-44
Concrete Sidewalks Top Dressed.....	45-47
Grading Streets.....	36-37
Ledge.....	50
Macadamized Streets.....	33
New Brick Sidewalks.....	26
New Stone Walls.....	26
New Fences.....	28
New Edgestones.....	31-32
New Sidewalks.....	34

CONTENTS.—CONTINUED.

	PAGES
New Granite Crossings.....	35
New Catch Basins.....	62-64
Personal Property, Street Department.....	14-17
Personal Property, Watering Streets.....	17
Personal Property, Boulevard.....	18
Personal Property, Sewer Department.....	19-21
Personal Property, Recapitulation.....	21
Paving Gutters.....	22
Paving Aiken Street Bridge.....	27
Permits Granted	51
Repaving Gutters.....	23
Repaving Streets.....	24
Repairing Bridges.....	27
Relaying Crossings.....	28
Relaying Sidewalks.....	29
Removing Snow.....	29
Resolutions for Sidewalks.....	41
Resetting Edgestones.....	49
Sweeping Streets.....	13
Streets Laid Out and Accepted.....	48
Sundry Work.....	50
Sewers Constructed.....	52-59
Sewers Repaired.....	60-61
Top Dressing Streets.....	25
Table of Sewers.....	65-66
Wood Block Paving.....	51



STROMQUIST AVENUE SEWER CONSTRUCTION, LOOKING FROM WEED STREET SOUTHEASTERLY.

REPORT

SUPERINTENDENT OF STREETS' OFFICE,
CITY HALL,

LOWELL, MASS., DECEMBER 31, 1904.

TO THE HONORABLE CITY COUNCIL:

GENTLEMEN:—

In compliance with City Ordinances, herewith, respectfully is submitted the annual report upon the several departments under the direction and control of the Superintendent of Streets.

LAFORST BEALS, Supt. of Streets Jan. 1st,—May 24th, 1904.

FREDERICK W. FARNHAM, Acting Supt. of Streets, by appointment.

HON. CHARLES E. HOWE, Mayor, May 25th, 1904—January 4, 1905.

APPROPRIATIONS 1904.

NAME OF APPROPRIATION.	Bal. Cr. Jan. 1, 1904.	Appropri- ation 1904	Additional Appropriat'n	Receipts	Total Receipts	Expenditures	Trans. to Gen. Treas. Fund
STREET DEPT.					\$ 4,000 00	\$ 4,000 00	
Salaries.....		\$ 4,000 00		\$ 533 55	11,533 55	11,501 94	\$ 31 61
Yard Labor.....		11,000 00		83 10	133,583 10	131,589 46	1,993 64
Care of Streets.....		90,000 00	\$43,500 00	2,318 46	53,503 58	53,503 58	
Sundries.....		45,500 00	5,685 12		8,500 00	8,405 40	94 60
New Sidewalks.....		8,500 00			5,000 00	4,999 20	80
Sidewalk Repairs.....		5,000 00			2,500 00	2,483 13	16 87
Bye St.....	2,500 00						
	\$ 2,500 00	\$164,000 00	\$49,185 12	\$2,935 11	\$218,620 23	\$216,482 71	\$2,137 52
SEWER MAINTENANCE.							
Salaries.....		\$ 2,939 00			\$ 2,939 00	\$ 2,896 27	\$42 73
Labor.....		12,000 00		\$ 509 54	12,509 54	12,451 57	57 97
Sundries.....		8,561 00		3,208 43	11,769 43	11,767 06	2 37
		\$23,500 00		\$ 3,717 97	\$27,217 97	\$ 27,114 90	\$103 07
WATERING STREETS.							
Labor.....		\$ 5,000 00		\$ 28 00	\$ 5,028 00	\$ 5,011 71	\$16 29
Sundries.....		10,500 00		1,372 00	11,872 00	11,844 06	27 94
		\$15,500 00		\$ 1,400 00	\$16,900 00	\$ 16,855 77	\$44 23
SEWER CONSTRUCTION....		\$120,000 00		\$ 16 00	\$120,016 00	\$115,989 42	\$4,026 58

CLEANING STREETS.

NAME OF STREET.	COST.	NAME OF STREET.	COST.
A.....	\$ 37 03	Boynton.....	\$ 10 30
Abbott.....	9 02	Branch.....	15 32
Adams.....	29 79	Bridge	28 87
Agawam.....	17 81	Broadway.....	57 88
Aiken Ave.....	33 33	Burgess.....	13 47
Albion.....	6 40	Burns.....	2 27
Alder.....	12 83	Burt.....	13 02
Ames.....	6 42	Butterfield.....	12 63
Andover.....	148 81	Butler Ave.....	2 39
Andrews.....	30 86	Brooks.....	5 99
Anne.....	31 69	Billings.....	4 12
Arch.....	6 62	Boulevard.....	1,050 21
Arlington.....	7 83	Bertram.....	4 56
Ash.....	17 65	Burnside.....	9 06
Auburn.....	6 84	C.....	18 25
Austin.....	15 63	Cabot.....	22 25
Arthur.....	4 55	Cady.....	8 60
Ames.....	2 07	Cambridge.....	37 02
B.....	40 62	Canton.....	32 51
Baldwin.....	8 24	Carlisle.....	24 01
Barclay.....	17 81	Carlton.....	2 16
Barrington.....	4 78	Carter.....	2 39
Bartlett.....	25 49	Cedar.....	16 52
Bassett.....	4 42	Central.....	34 90
Beacon.....	117 26	Chambers.....	8 90
Beech.....	36 68	Chapel.....	19 81
Bellevue.....	4 35	Charles.....	6 57
Bellmont.....	35 63	Cheever.....	13 92
Bellmont Ave.....	12 38	Chelmsford.....	47 14
Belrose Ave.....	8 24	Chester.....	11 40
Billings.....	27 36	Chestnut.....	32 45
Blodgett.....	10 75	Church.....	12 26
Blossom.....	17 58	Claire.....	12 82
Bourne.....	8 59	Clarke.....	12 42
Bowden.....	13 23	Coburn.....	31 60
Bowers.....	14 34	Colonial Ave.....	15 20

CLEANING STREETS—CONTINUED.

NAME OF STREET.	COST.	NAME OF STREET.	COST.
Common.....	\$ 29 87	Eleventh.....	\$ 45 47
Concord.....	49 30	Elliott.....	13 25
Congress.....	8 70	Ellsworth.....	3 43
Coolidge.....	3 78	Elm.....	22 15
Coral.....	22 16	Emery.....	10 96
Corbett.....	4 43	Ennoll.....	18 79
Corner.....	8 11	Everett.....	5 76
Cosgrove.....	17 70	Exeter.....	4 13
Court.....	4 45	Eaton.....	6 62
Crawford.....	4 77	Essex.....	8 70
Crescent.....	13 02		
Cross.....	37 00	Fairmount.....	75 34
Crowley.....	13 03	Fairview.....	14 32
Cumberland Road.....	8 46	Favor.....	6 61
Cushing.....	13 32	Fay.....	11 08
Colburn.....	11 95	Fayette.....	26 60
Chase Ave.....	6 52	Fenwick.....	9 07
Columbus Ave.....	12 37	Fifth.....	43 21
City Hall Ave.....	79 28	Fifth Ave.....	14 35
Court Ave.....	4 46	First.....	32 57
D.....	24 88	Fletcher.....	106 36
Dalton.....	64 15	Floyd.....	12 77
Dartmouth.....	10 72	Ford.....	41 83
Davis.....	2 40	Fort Hill Ave.....	56 49
Doane.....	4 34	Foster.....	85 92
Dodge.....	7 32	Fourth Ave.....	38 90
Dover.....	53 87	Franklin.....	8 32
Dummer.....	13 67	Fremont.....	49 51
Dunfey.....	3 49	Fulton.....	19 09
Durant.....	29 97	Fourth.....	28 68
East Merrimack.....	56 01	Fernald.....	2 06
East Pine.....	15 43	Farmland Rd.....	8 13
Edson.....	13 57		
Eighteenth.....	32 36	Garnet.....	10 83
Eighth.....	12 15	Gates.....	28 89
Eighth Ave.....	10 74	Gershom Ave.....	20 40
		Gibson.....	6 85

CLEANING STREETS—CONTINUED.

NAME OF STREET.	COST.	NAME OF STREET.	COST.
Gold.....	\$ 1 92	Jackson.....	\$ 7 18
Gorham.....	17 16	James.....	13 67
Grand.....	39 43	Jefferson.....	9 36
Grove.....	51 14	Jenness.....	13 03
Glidden Ave.....	16 70	Jewett.....	28 88
Gibson.....	21 50	John.....	19 65
Georgia Ave.....	4 56	June.....	15 10
Grace.....	2 28	July.....	1 98
Hale.....	71 57	Keene.....	16 53
Hall.....	11 70	Kinsman.....	21 88
Hampshire.....	45 07	Kirk.....	3 67
Hanks.....	25 61	Kimball Ave.....	4 46
Hanover.....	11 32	Knapp Ave.....	7 81
Harding.....	8 08	Lagrange.....	12 81
Harrison.....	10 76	Lane.....	12 81
Harvard.....	23 44	Laurel.....	20 85
Hastings.....	32 69	Lawrence.....	67 03
Hawthorn.....	4 34	Lawson.....	5 49
High.....	80 37	Lee.....	14 06
Highland.....	30 40	Leroy.....	10 76
Hildreth.....	107 26	Leverett.....	13 26
Holyrood Ave.....	38 45	Lewis.....	8 41
Houghton.....	9 13	Liberty.....	62 88
Howard.....	114 19	Lilley Ave.....	35 59
Howe.....	8 26	Lincoln.....	80 91
Hudson.....	9 01	Linden.....	8 47
Humphrey.....	28 44	Little.....	6 45
Huntington.....	21 50	Livermore.....	12 79
Hutchinson.....	6 84	Livingston.....	25 32
Hoyt Ave.....	8 24	Livingston Ave.....	16 07
Hovey.....	8 46	Lombard.....	7 96
Highland Ave.....	2 05	London.....	52 37
Hovey Ave.....	4 12	Loring.....	24 21
Hazeltine.....	2 29	Ludlam.....	47 46
Inland.....	26 28	Lundberg.....	21 94

CLEANING STREETS—CONTINUED.

NAME OF STREET.	COST.	NAME OF STREET.	COST.
Lyon.....	\$ 13 19	Nichols.....	\$ 17 71
Lamb.....	25 31	Nicolet.....	10 86
Little Canada.....	59 07	Nineteenth.....	24 09
Madison.....	4 35	Ninth.....	3 90
Main.....	18 03	North.....	14 17
Mammoth.....	102 42	Norcross.....	53 42
Manchester.....	15 51	North Common.....	37 13
Mansur.....	29 07	Oak.....	20 73
Marginal.....	24 73	Oakland.....	40 63
Marion.....	6 35	Olive.....	1 04
Market.....	55 01	Osgood.....	10 73
Marlborough.....	37 30	Otis.....	6 85
Marshall.....	30 81	Oliver.....	5 91
May.....	10 85	O'Connell.....	4 24
Mead.....	5 60		
Meadowcroft.....	8 25	Pawtucket.....	185 74
Merrimack.....	20 34	Paige.....	23 92
Methuen.....	63 16	Park.....	21 06
Middlesex.....	232 84	Parker.....	47 02
Midland.....	29 97	Pearl.....	10 88
Mill.....	2 86	Perry.....	42 23
Moody.....	160 63	Phillips.....	3 89
Moore.....	60 38	Pine.....	132 18
Mt. Grove.....	8 03	Plain.....	61 25
Mt. Hope.....	35 16	Pond.....	8 15
Mt. Vernon.....	38 15	Porter.....	18 99
Mt. Washington.....	21 89	Powell.....	65 01
Myrtle.....	45 31	Princeton.....	61 78
Meadow Road.....	19 55	Prospect.....	8 91
Manahan.....	10 83	Puffer.....	2 05
Merrill.....	2 38	Parkview Ave.....	38 22
		Payton.....	4 56
New Moody.....	42 12	Pollard.....	2 38
Nesmith.....	107 27	Picking up Papers.....	421 93
Newell.....	10 76		
Newhall.....	20 08	Queen.....	23 88

CLEANING STREETS.—CONTINUED.

NAME OF STREET.	COST.	NAME OF STREET.	COST.
Railroad.....	\$ 12 80	Spalding.....	\$ 7 49
Ralph.....	2 27	Stackpole.....	44 43
Read.....	35 78	Stevens.....	215 48
Riverside.....	59 52	Suffolk.....	16 24
Robbins.....	35 65	Summer.....	50 77
Rock.....	42 89	Swift.....	2 38
Rogers.....	151 98	Sutherland.....	18 88
Rolfe.....	8 03	Stanley.....	14 97
Royal.....	26 81	State.....	10 97
Race.....	14 84	Sidney.....	10 95
Roberts.....	12 61	Somerset.....	3 20
Robinson.....	4 35	Smith Ave.....	4 34
Richards.....	29 75	Stedman.....	17 16
Richmond.....	1 04	Starbird.....	25 21
Ross Ave.....	2 17	St. James.....	5 12
Salem.....	61 70	Sanders Ave.....	4 57
Sargent.....	14 45	Standish.....	4 34
Sayles.....	10 75	So. Common.....	37 13
Schaffer.....	8 03	Saratoga.....	11 19
School.....	179 17	Talbot.....	14 56
Second.....	17 89	Tanner.....	21 71
Second Ave.....	15 43	Tenth.....	42 15
Seventh.....	16 28	Third.....	119 90
Seventh Ave.....	17 49	Third Ave.....	19 53
Shaw.....	50 82	Thirteenth.....	21 51
Sheldon.....	13 38	Thorndike.....	126 08
Sherman.....	29 97	Tilden.....	22 52
Simpson.....	6 41	Tucker.....	10 79
Sixth.....	53 59	Twelfth.....	17 35
Sixth Ave.....	27 29	Tyler.....	33 07
Smith.....	100 70	Tremont.....	20 15
South.....	52 91	Tolman Ave.....	6 05
So. Canton.....	10 72	Tyler Park.....	109 16
So. Highland.....	8 90	Totman.....	2 40
So. Loring.....	20 31	Union.....	26 20
So. Whipple.....	21 95		

CLEANING STEETS.—CONTINUED.

NAME OF STREET.	COST.	NAME OF STREET.	COST.
Varney.....	\$ 10 94	Western Ave.....	\$ 33 19
Varnum.....	25 18	Westford.....	184 21
Varnum Ave.....	134 18	Whipple.....	21 87
Vernon.....	21 49	Worthen.....	63 17
Victoria.....	2 06	Willard.....	18 47
		Willow.....	25 15
Watchusett.....	15 32	Wyman.....	41 93
White.....	27 39	Ward.....	13 59
Walker.....	118 69	Whitney Ave.....	17 89
Walnut.....	15 33	West Bowers.....	3 97
Wamesit.....	16 74	Willie.....	21 24
Wannalancit.....	13 52	Wentworth Ave.....	74 69
Ware.....	6 72	Willie Ave.....	16 77
Warwick.....	27 60	Woodward Ave.....	4 78
Washington.....	20 10	Wilder.....	166 57
Watson.....	8 79	West Adams.....	12 37
West (Centralville).....	19 33	Winter.....	15 64
West (Ayer's City).....	4 34	Windsor.....	11 41
West 11th.....	4 02	Winthrop Ave.....	4 57
West 5th.....	8 58	Waverly Ave.....	10 31
West 4th.....	10 64	Wright.....	2 37
West 9th.....	4 13	Walden.....	4 56
West 6th.....	61 02		
West 3rd.....	21 28	Total Cost.....	\$12,202 66

SWEEPING STREETS.

NAME OF STREET.	COST.	NAME OF STREET.	COST.
Adams.....	\$ 167 61	Kirk.....	\$ 2 20
Andover.....	47 81	Lakeview.....	442 99
Anne.....	28 60	Lawrence.....	344 20
Appleton.....	148 24	Lee.....	2 20
Arch.....	13 51		
Branch.....	117 91	Mammoth Road.....	89 40
Bridge.....	229 21	Market.....	331 10
Broadway.....	13 22	Merrimack.....	208 29
Cabot.....	71 21	Middlesex.....	59 28
Central.....	42 72	Moody.....	28 09
Chelmsford.....	414 20	Mt. Vernon.....	59 55
Church.....	95 53	Middle.....	11 04
Concord.....	38 37	New Moody.....	41 63
Crosby.....	62 39	Pawtucket.....	222 93
Charles.....	4 97	Pleasant.....	16 25
Dutton.....	256 14	Palmer.....	4 30
Davidson.....	58 35	Salem.....	87 56
E. Merrimack.....	182 05	School.....	143 42
Fayette.....	66 08	Shattuck.....	4 32
First.....	73 34	Suffolk.....	4 40
Fletcher.....	159 48	Thorndike.....	192 27
George.....	24 94	Walker.....	95 06
Gorham.....	347 58	Warren.....	12 76
Green.....	26 03	Western Ave.....	157 83
Hale.....	82 79	Westford.....	13 23
Howard.....	68 49	Worthen.....	106 90
Hurd.....	30 13	Williams.....	32 13
Jackson.....	131 20	Total Cost.....	\$5,715 43

PERSONAL PROPERTY.

Schedule of Personal Property belonging to the Street Department
December 31, 1904.

2 Machine Augers.....	\$ 1 00	250 Feet Fire Hose.....	\$75 00
4 Adzes.....	4 00	5 Feed Boxes.....	25 00
57 Blankets.....	114 00	167 Grade Stakes.....	2 50
51 Street Blankets.....	102 00	33 Tons Hay.....	660 00
1 Bridge Auger.....	50	41 Draught Horses.....	8,200 00
69 Curry Combs.....	17 25	7 Driving Horses.....	1,000 00
50 Horse Brushes.....	75 00	200 Loads Sand.....	300 00
3 Clocks.....	3 00	700 Bushels Oats.....	350 00
4 Coal Hods.....	2 00	35 Mane Brushes.....	15 00
1 Pair Climbing Spurs....	1 25	1 Set Dies and Plates....	75 00
4 Coal Stoves.....	13 00	2 Tons Straw.....	50 00
41 Old Collars.....	57 40	3 Stone Drag.....	15 00
4 Hand Rollers.....	20 00	52 Street Signs.....	52 00
4 Sets Dump Cart Har- nesses.....	80 00	3 Horse Covers.....	9 00
113 Lanterns.....	113 00	53 Halters.....	53 00
9 Single Sleds.....	300 00	2 Hay Cutters.....	15 00
26 Double Sleds.....	1,500 00	614 Snow Shovels.....	307 00
3 Derricks.....	150 00	10 Stone Forks.....	5 00
23 Drilling Spoons.....	5 06	11 Sets Sighting Sticks....	5 00
150 Feet Birch Boards....	8 00	4 Iron Squares.....	3 00
35 Sets Double Harnesses	875 00	12 Hay Forks.....	6 00
4 Driving Sleighs.....	200 00	1 Hand Cart.....	15 00
6 Buggies and Wagons...	800 00	10 Brooms for Sweeper...	91 00
9 Driving Harnesses.....	164 00	16 Snow Plows.....	160 00
23 Double Carts.....	2,300 00	5 Tape Measures.....	5 00
2 Double Jiggers.....	200 00	3 Sparrow Wagons.....	75 00
1 Double Stone Wagon...	25 00	7 Sparrow Carts.....	20 00
2 Lumber Wagons.....	300 00	3 2-horse Street Sweepers.	300 00
1 Single Lumber Wagon..	15 00	800 Lbs. Rock Salt.....	16 00
12 Single Dump Carts....	1,300 00	300 Lbs. Horse Food.....	4.50
4 2-wheel Dump Carts...	200 00	90 Bushels Corn.....	54 00
2 Single Jiggers.....	150 00	1 Engine, Boiler, Stone Crusher and Building at ledge.....	2,500 00
2 Fire Pails.....	8 50	40 Feet Corner Stone.....	27 50
43 Feed Baskets.....	33 00		

8000 Feet Spruce Lumber	\$160 00	13 Hand Saws.....	\$ 5 50
500 Feet Spruce Matched Boards.....	10 00	42 Boxes Dynamite.....	630 00
215 Feet $\frac{3}{4}$ inch Rubber Hose.....	20 00	180 Push Brooms.....	124 20
153 Feet $\frac{3}{4}$ inch Rope....	1 25	12 Water Pails.....	4 80
100 Feet $\frac{1}{2}$ inch Rope....	1 00	11 5-Gallon Oil Cans.....	5 00
14 Gallons Harness Oil...	7 00	9 2-Gallon Oil Cans.....	2 00
3 Steam Road Rollers....	8,000 00	3 Derrick Chains.....	3 00
1 2-Horse Dirt Scraper...	20 00	7 Spreaders and Chains...	14 00
5 Tons Coal.....	35 00	1 Manure Fork.....	50
1 Steam Heating Boiler...	570 00	6 Gallons Blue Paint.....	6 00
8000 Feet Oak Plank.....	458 00	1 Set Light Double Har-	
195 Pick Handles.....	19 00	ness.....	50 00
39 Stone Chains.....	39 00	1 Pair Rubber Boots.....	3 25
17 Striking Hammers....	34 00	125 Hoes.....	66 25
1 Blacksmith Shop and Tools at Ledge.....	75 00	20 Frost Wedges.....	15 00
3 Steam Drills.....	500 00	23 Wheelbarrows.....	23 00
3000 Exploders.....	90 00	8 Long Handle Shovels...	10 50
38 Iron Pails.....	24 00	4 Batteries and Wires....	70 00
92 Square Pointed Shovels	41 00	9 Spirit Levels.....	4 50
120 Feet Drill Steel.....	50 00	4 Cross Cut Saws.....	14 00
61 Iron Rakes.....	24 40	11 Tamping Bars.....	11 00
8 Paving Mauls.....	10 00	1 Portable Crusher.....	1,500 00
26 Stone Hammers.....	52 00	1 Heavy Set Falls and	
13 Frost Hammers.....	26 00	Rope.....	9 00
30 Stone Wedges.....	6 60	2 Pair Pipe Tongs.....	3 00
18 Tin Dippers.....	1 80	5 Ladders.....	25 00
54 Crow Bars.....	54 00	13 Heavy Single Harnesses	260 00
22 Kegs Wire Spikes.....	51 70	318 Round Pointed Shovels	159 00
5 Trowels.....	3 00	7 Tackle Blocks.....	7 00
284 Picks.....	275 00	1 Set Tackle Blocks and	
18 Axes.....	9 00	Rope.....	3 00
5 Kegs Wire Nails.....	13 50	1 Georgia Pine Bridge	
14 Tool Boxes.....	140 00	Timber.....	10 00
6 Claw Hammers.....	3 00	11 Dozen Lantern Globes	11 00
147 Hand Drills.....	29 40	18 Corn Brooms.....	2 25
120 Stone Points.....	15 00	1 Road Cutter Machine..	125 00
		2 Hard Pan Road Plows..	20 00
		2 Plows.....	10 00
		1 Single Express Wagon..	50 00

11 Stone Hand Sets.....	\$ 5 50	1 Chain Fall Set.....	\$ 7 00
4 Plush Robes.....	4 00	751 Feet 1 $\frac{1}{4}$ inch Iron Pipe	10 00
2 Cant Hooks.....	1 00	9 Plow Points.....	6 75
1200 Pounds Shorts.....	12 00	Set Runners for Express	
8 Bags Salt.....	8 00	Wagon.....	10 00
133 Hammer Handles....	13 00	4 Pinch Bars.....	4 00
1800 Tons Crushed Stone	1,800 00	20 Feet Stone Flagging...	10 00
36 Hand Pans.....	27 00	26 Drag Planks.....	26 00
28 Push Pans.....	56 00	25 Feet White Wood	
7 Screens.....	30 00	Sheathing.....	4 50
1 Pung.....	15 00	151 Feet Edgestones.....	60 40
9 Cans Albany Grease....	18 00	10 Wheelbarrow Trays...	7 50
2 Sod Cutters.....	1 00	4 Gallons Harness Dressing	5 00
2 Boxes Green Mountain		2 Stilsom Wrenches.....	3 50
Salve.....	12 00	6 Drill Hose.....	60 00
4 Wheel Jacks.....	16 00	150 Sets Shims and Wedges	5 00
13 Cart Spreaders.....	6 50	1 Dozen Paint Brushes...	3 50
2 Pair Cart Shafts.....	16 00	2 Gallons Axle Oil.....	45
5 Gallons Turpentine.....	6 00	1 Blacksmith's Shop and..	
2 Claw Bars.....	1 00	Tools.....	500 00
126 Feet Pine Boards....	3 00	1500 Paving Blocks.....	105 00
Old Flagging.....	100 00	1 Vise.....	10 00
110 Gallons Kerosene....	11 00	1 New Cart Body.....	25 00
51 pounds Soap.....	12 75	400 Feet Hemlock Plank.	20 00
30 Sponges.....	14 00	4 2-bushel Baskets.....	2 00
1 Kerosene Tank.....	45 00	6 Peen Hammers.....	9 00
1 Grind Stone.....	5 00	1 Hand Axe.....	75
6 Buffalo Robes.....	100 00	29 Garbage Barrels.....	145 00
6 Ice Picks.....	3 00	2 Cans Polish.....	2 50
6 Muzzles.....	6 00	6 Cans Reed's Polish.....	24 00
3 Axe Handles.....	30	1 Carpenter Shop.....	100 00
4 Small Oil Cans.....	1 00	130 Sparrow Brooms.....	42 90
55 Gallons Cylinder Oil..	16 00	5 Sets Springs for Steam	
35 Barrels Machine Oil..	17 00	Roller.....	23 50
4 Monkey Wrenches.....	4 00	10 Bushings.....	35 00
45 Long Handled Snow		12 Packages Gold Dust...	3 00
Shovels.....	25 00	1 Set Wire Stretchers.....	1 50
6 Drill Pumps.....	6 00	Horse Medicine.....	40 00
7 Forks.....	3 50	10 Iron Bars.....	15 00

$\frac{3}{4}$ Barrel Axle Grease.....	\$24 00	2 Manure Wheelbarrows..	\$10 00
3 Dozen Tuttle's Elixir...	12 00	1 Old Kerosene Tank....	5 00
3 Tons Coal.....	18 00	10 Wooden Pails.....	5 00
14 Axes.....	12 00	30 Grub Axes.....	45 00
3 Dozen Bells and Straps	23 00	3 Steam Roller Tool Boxes	
4 Lifting Hooks.....	6 00	and Tools.....	30 00
50 Pounds Copper Waste.	1 00	18 Hand Hammers.....	10 80
8 Whips.....	14 00	45 Gallons Axle Oil.....	5 00
1 Set Front Wheels.....	50 00	18 Bound Stones.....	23 76
2 Brick Hammers.....	1 60	8 Chestnut Posts.....	2 40
6 Paving Hammers.....	4 00	2 New Boats.....	50 00
8 Wooden Mauls.....	8 00	300 Feet Michigan Pine..	21 00
Harness Shop and Stock..	50 00	300 Feet Georgia Pine...	9 00
Office Fixtures.....	150 00	3 Rolls Barbed Wire.....	6 00
12 Whiffletrees and Chains	6 00	2 Forges.....	5 00
1 Vise.....	8 00	1 Steam Roller Box and	
1 Set Platform Scales....	300 00	Castings.....	100 00
3 Steam Roller Grates....	15 00	265 Barn Brooms.....	13 25
100 Feet 1-inch Rope.....	3 00		
5 Sets Steam Drill Steel..	250 00		
			<hr/> \$42,797 97

PERSONAL PROPERTY.

Schedule of Personal Property belonging to the Street Watering Department, December 31, 1904.

22 Horses.....	\$ 2,200 00	1 Feed Truck.....	\$ 4 00
12 Sets Double Harnesses	325 00	8 Shut-off Wrenches.....	8 00
22 Halters.....	17 00	1 4-quart Measure.....	50
24 Collars.....	50 00	44 Blankets.....	140 00
13 Sprinkling Carts.....	1,950 00	11 Sponges.....	5 50
1 Monkey Wrench.....	75	11 Pounds Soap.....	2 75
2 Neck Yokes.....	2 00	1 Hydrant Valve.....	16 00
5 Double Carts.....	500 00	6 2-inch Valves.....	24 00
24 Feed Baskets.....	10 00	6 Lengths Iron Pipe.....	9 00
2 Pair Tongs.....	4 00	3 Wagon Jacks.....	15 00
2 Step Ladders.....	5 00	4 Street Car Hydrants....	260 00
36 Horse Brushes.....	18 00	17 Street Car Hydrants	
11 Curry Combs.....	2 00	Complete.....	1,870 00
1 Large Stillson Wrench..	1 00		
10 Pails.....	2 50		<hr/> \$7,442 00

PERSONAL PROPERTY.

Schedule of Personal Property belonging to the Boulevard,
December 31, 1904.

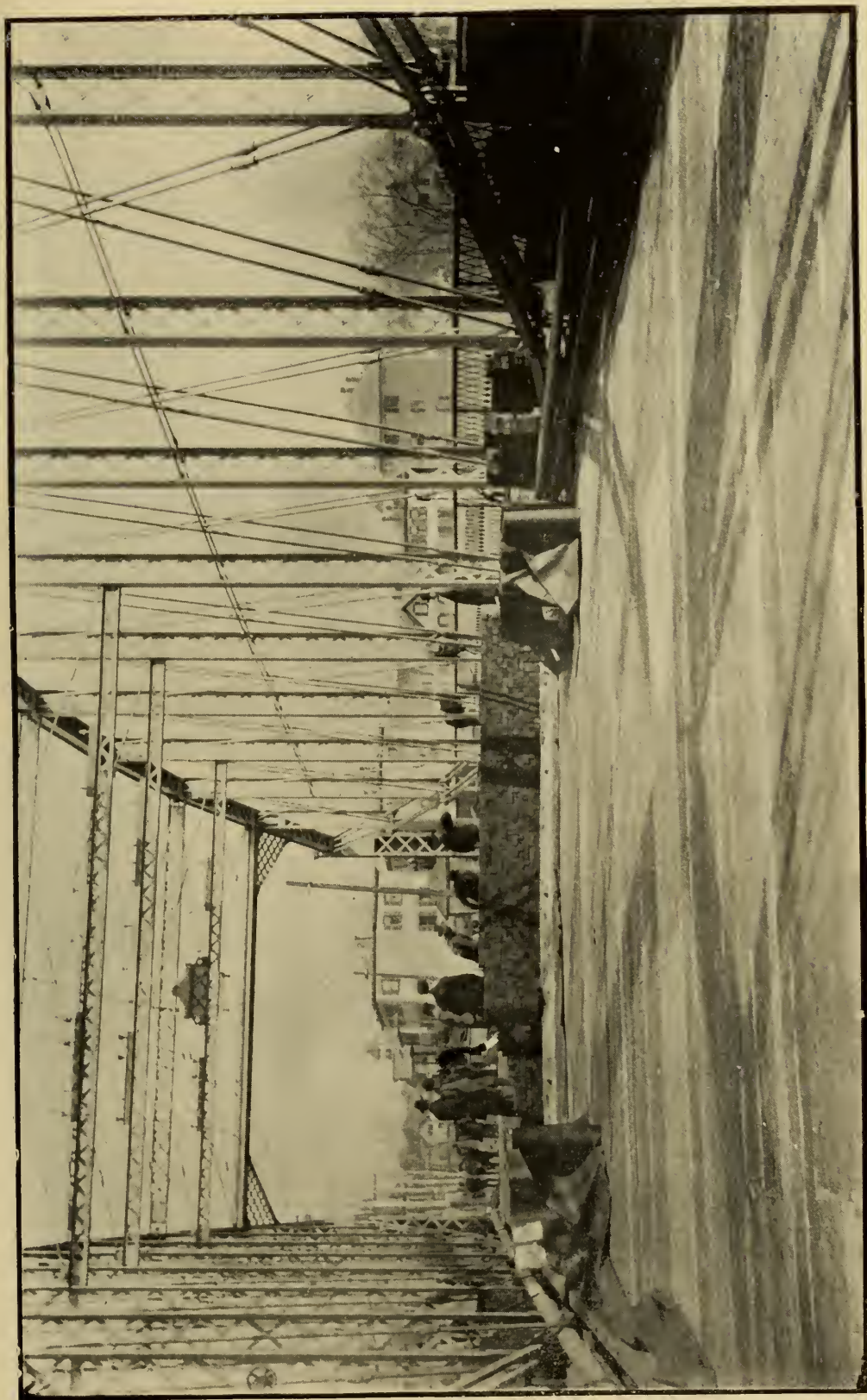
1 Sprinkling Cart.....	\$225 00	2 Tree Trimmers.....	\$ 2 00
23 Grass Signs.....	2 50	12 Wooden Rakes.....	5 00
6 Stone Forks.....	3 00	4 Sparrow Brooms.....	1 00
6 Iron Rakes.....	2 50	1 Pick.....	60
9 Hoes.....	4 50	7 Round Pointed Shovels.	7 00
8 Lawn Mowers.....	15 20	6 Square Pointed Shovels.	3 60
8 Scythe Snaths.....	4 00	2 Lanterns.....	1 00
4 Sickles.....	2 00	3 Sighting Sticks.....	50
2 Sod Cutters.....	1 25	1 Windmill.....	2,500 00
1 Sand Screen.....	2 00	1 Hand Saw.....	75
1 Spirit Level.....	1 50	1 Hammer.....	50
1 Pair Edging Shears.....	1 50	2 Axes.....	1 50
1 Grind Stone.....	5 00	10 Scythes.....	10 00
1 Storehouse.....	250 00	4 Hay Forks.....	3 00
3 Wheelbarrows.....	3 75	3 Ladders.....	15 00
2 Wooden Mallets.....	1 00		
2 Hand Sprinklers.....	2 00		
1 Wooden Maul.....	50		
			<hr/>
			\$3,078 65

PERSONAL PROPERTY.

Schedule of Personal Property belonging to the Sewer Department,
December 31, 1904.

40 Parts of Old Grates...	\$ 52 00	13 Sheave Blocks.....	\$ 1 30
20 Crow Bars.....	20 00	12 Catch Basin Dippers..	3 00
10 Crabs for Shear Poles.	250 00	12 Sheathing Caps.....	28 00
281 Feet Drain Pipe.....	34 72	10 Iron Mauls.....	10 00
9 Water Barrels.....	9 00	18 Wooden Mauls.....	18 00
7 Mortar Beds.....	7 00	12 Sets Shear Poles.....	120 00
3 Sand Screens.....	15 00	1 Pair Pipe Shear Poles..	50 00
212 Catch Basin Steps....	60 00	1 Trainer Transmitter	
18 Square Feet Packing..	3 00	Sewer Machine.....	2,000 00
1 Pipers Dye and Stock..	18 00	17 Jack Screws.....	34 00
6 Tool Boxes for Boilers..	24 00	7 Kegs 30 Penny Nails...	11 55
2 Pairs Tongs.....	4 00	102 Lanterns.....	51 00
12 Hydrant Wrenches....	12 00	10 Pairs Long Rubber	
14 Jack Bars.....	4 00	Boots.....	70 00
1 Paving Maul.....	3 00	12 Iron Pails.....	12 00
3 Portable Forges.....	200 00	550 Feet $\frac{3}{4}$ inch Rubber	
16 Tool Boxes.....	160 00	Hose.....	35 00
2 Sewer Wheelbarrows....	2 00	1 Set Branding Irons.....	2 00
2 Dutchmen for Hydrants	25 00	19 Hoes.....	9 50
9 Wooden Rolls.....	2 25	6 Post Hole Scoops.....	12 00
5 Houses for Engines.....	100 00	215 Round Point Shovels.	146 00
6 Batteries and Wires....	120 00	190 Square Point Shovels.	150 00
9 Steam Drills and Tools.	2,000 00	2150 Feet Old Rope.....	60 00
7 Mason's Trowels.....	7 00	3000 Feet Sewer Lumber.	450 00
400 Feet Drill Steel.....	112 00	7 Marine Pumps.....	84 00
9 Caulking Tools.....	4 20	120 Feet Large Pump Hose	150 00
4 Hand Drill Hammers...	2 00	1 60-Gallon Oil Can.....	7 50
6 Tape Lines.....	8 00	3 Steam Drill Pumps.....	3 00
5 Pounds Shims and		20 Drilling Spoons.....	10 50
Wedges.....	3 50	8 Hand Saws.....	8 00
42 Striking Hammers.....	84 00	10 Barrels Hoffman	
19 Stone Hammers.....	38 00	Cement.....	13 00
4 Frost Hammers.....	12 00	53 Barrels Portland	
2 Fiddle Blocks.....	11 00	Cement.....	92 85
100 Pick Handles.....	10 00	3 Adzes.....	11 25

6 Axes.....	\$ 6 00	12 Spanner Wrenches....	\$ 8 50
5 Hatchets.....	5 00	1 Large Hose Nozzle.....	12 00
22 Packages Carriage		1 Set Tap and Dies.....	15 00
Bolts.....	22 00	21 Sling Chains.....	10 50
5 Spirit Levels.....	6 90	7 Sets Tackles and Falls..	35 00
1 Steel Square.....	1 00	200 Gallons Kerosene....	24 00
12 Measuring Sticks.....	12 00	3 Neck Yokes.....	6 00
6 Gallons Blue Paint.....	12 00	107 Wooden Pails.....	9 63
4 Claw Hammers.....	2 00	4 Frost Wedges.....	4 00
21 Padlocks.....	21 00	3 Pipe Vises.....	45 00
25 Feet Steam Drill Pack-		25 Hand Drills.....	6 00
ing.....	3 00	2 Row Boats.....	30 00
1 Box Repairs for Marine		7 Sheathing Pulleys.....	21 00
Pumps.....	25 00	6 Iron Tampers.....	3 60
3 Strainers for Marine		12 Scoop Handles.....	2 64
Pumps.....	3 25	7 Cross Cut Saws.....	14 00
6 Monkey Engines.....	3 75	24 Iron Wheelbarrows....	72 00
3 Lidgewood Engines.....	2,700 00	500 Feet Canada Matched	
1 Hoadley Engine.....	350 00	Boards.....	16 00
1 Webb-Watson Engine...	500 00	300 Feet Spruce Matched	
6 Sets of Engineer's Boxes	24 00	Boards.....	5 25
1 Upright Boiler.....	250 00	2 Roll Canvass.....	100 00
2 Derricks.....	500 00	4 Manhole Covers.....	39 98
3 Submerged Pumps.....	400 00	4 Track Grates.....	32 00
2 Pile Drivers.....	150 00	1 Length Iron Pipe.....	24 00
3 Driving Horses.....	300 00	5 Single Harnesses.....	100 00
4 Draught Horses.....	800 00	2 Light Harnesses.....	40 00
1 Concord Wagon.....	225 00	1 Express Wagon.....	125 00
1 Light Sleigh.....	55 00	25,000 Brick.....	327 50
1 Single Truck.....	50 00	7 Halters.....	7 00
4 Single Sleds.....	200 00	2 Tons Coal.....	15 00
5 1-Horse Dump Carts...	400 00	1 Stove.....	5 00
1 Double Truck.....	300 00	1 Work Bench.....	5 00
7 Stable Blankets.....	22 00	1 Box Rollers.....	2 50
7 Street Blankets.....	22 00	2 Tool Boxes for Boilers..	8 00
4 Grub Axes.....	2 50	5 Rolls Tar Paper.....	5 00
370 Picks.....	277 50	1 Paving Hammer.....	1 50
14 Large Chains.....	54 00	2 Small Tool Houses.....	40 00
5 Steam Drill Tool Boxes	20 00	6 Sets Wires for Batteries.	12 00



AIKEN STREET BRIDGE, NORTH SPAN, LOOKING NORTH, SHOWING TAR PAPER AND PAVING BLOCKS.

25 Stone Cutter's Points..	\$10 00	50 Loads Sand.....	\$75 00
1 Set Blacksmith's Tools.	10 00	3 Ejectors.....	35 00
4 Anvils.....	21 00	1 Pile Driver.....	75 00
12 Oil Cloth Suits.....	27 60	1 Oil Tank.....	45 00
40 Feet 2½ inch Hose.....	25 00	125 Feet Steam Drill Hose	87 50
6 Oil Cans.....	5 25	1 Force Pump.....	17 00
1 Paint Brush.....	25	1 Stillson Wrench.....	2 50
4 Sets Engineer's Tools...	18 00	1 Sewer Cleaning Machine	750 00
1 Tool House and Fixtures	3,000 00	5 Manhole Castings.....	67 50
1 Table.....	8 00	1 Magazine.....	375 00
1 2-Wheel Dump Cart....	40 00	1 Box Steam Drill Fixtures	300 00
2 Boxes Steam Fittings...	15 00	6 Boxes Packing.....	18 50
1 Bolt Cutter.....	8 00	2 Dynamite Heaters.....	5 00
1 Sprinkling Can.....	75	6 Diaphragms for Pumps..	5 00
25 Feet Plug Steel.....	3 75	15 Bags Salt.....	15 00
1 Vise.....	10 00	30 Boxes Exploders.....	157 00
4 Water Tubs.....	2 00	600 Feet 2½ inch Hydrant	
2 Hand Drills.....	16 00	Hose.....	360 00
6 Pairs Short Boots.....	18 00	2 Manhole Castings.....	30 00
39 Grates.....	513 00	5 Claw Bars.....	5 00
89 Lantern Globes.....	6 25	5 Plank Cutters.....	5 00
4 Edgestone Castings....	8 00	4 Water Proof Covers....	12 00
6 Long Handle Shovels...	4 00		
1 Scythe Snath.....	2 00		
600 Feet Wrought Iron			
Pipe.....	75 00		
			<hr/>
			\$22,313 47

PERSONAL PROPERTY RECAPITULATION.

Street Department.....	\$42,797 97
Street Watering.....	7,442 00
Boulevard	3,078 65
Sewer Department.....	22,313 47
	<hr/>
	\$75,632 09

PAVING GUTTERS

STREET.	COST.	LENGTH IN FEET.
Bartlett.....	\$39 38	\$332
Bowers.....	60 50	520
Beech.....	14 38	88
Crowley.....	12 20	51
Chestnut.....	14 38	280
Elliott.....	36 31	260
Eaton.....	6 66	50
Fort Hill Ave.....	46 09	565
Grove.....	98 21	735
Howard.....	159 95	1172
High.....	25 00	150
Hastings.....	115 72	1021
Ina.....	36 80	300
Lincoln.....	135 61	1140
Loring.....	3 88	30
Livingston.....	87 69	540
Liberty.....	34 00	201
Myrtle.....	3 32	15
Meadowcroft.....	65 27	790
Moore.....	21 66	480
Otis.....	33 70	260
Pine.....	88 96	535
Plain.....	10 00	71
Plymouth.....	66 87	288
Powell.....	14 06	75
Stevens.....	197 32	951
Sidney.....	14 50	267
Sixth.....	13 60	100
South Whipple.....	2 25	12
School.....	132 54	1410
Sherman.....	46 00	260
Shaw.....	4 81	54
Westford.....	95 25	635
	\$1,736 87	13,638

REPAVING GUTTERS.

STREET.	COST.	LENGTH IN FEET.
Chestnut.....	\$30 09	280
Dover.....	13 78	97
Durant.....	3 50	20
Fourth.....	46 69	560
Foster.....	16 72	100
High.....	11 38	125
John.....	14 38	138
Loring.....	21 97	340
Marshall.....	6 01	71
Marlborough.....	10 08	235
Moore.....	56 73	400
Sixth.....	171 21	1220
Tenth.....	6 56	110
Third.....	99 34	1400
West Third.....	1 41	10
	\$509 85	5,106

REPORT OF THE
REPAVING STREETS.

STREET.	COST.	AREA IN YARDS.
Bridge.....	\$109 70	427
Branch.....	8 28	20
Chelmsford.....	76 37	198
Central.....	452 96	1,329
East Merrimack.....	99 75	436
Fletcher.....	195 16	484
Gorham.....	814 57	2,419
Howard.....	39 25	112
Lakeview Ave.....	26 50	95
Merrimack.....	127 31	520
Middlesex.....	166 38	349
Market.....	237 63	692
Prescott.....	308 99	898
Tanner.....	343 62	444
	\$3,006 47	8,423

TOP DRESSING STREETS.

STREET.	LOCATION.	LABOR.	STOCK.	NET COST.	AREA IN YARDS.
Branch.....	From Loring to Dover.....	\$ 168 00	\$ 84 50	\$ 252 50	3,400
Middlesex.....	" Wilder to Power House.....	516 83	192 40	709 23	7,600
Rogers.....	" High to Fort Hill Ave.....	59 50	41 60	100 10	1,844
Westford.....	" Windsor to Wilder.....	454 91	169 00	623 91	6,448
Walnut.....	" Central to Chapel.....	38 50	19 50	58 00	416
		\$1,237 74	\$ 507 00	\$1,744 74	19,708

NEW BRICK SIDEWALKS.

STREET.	LABOR.	STOCK.	AREA IN YARDS.
Concord.....	\$107 74	\$154 46	299
Merrimack.....	119 43	205 60	398
Market.....	83 70	121 91	236
Middlesex.....	92 44	195 27	378
Worthen.....	91 40	168 41	326
	\$494 71	\$845 65	1,637

NEW STONE WALLS.

LOCATION.	COST.	LINEAR FEET.
Chelmsford.....	\$13 28	54
Marshall.....	454 37	47
Mammoth Road.....	426 32	230
Maple.....	512 00	288
Powder Magazine.....	309 27	100
Poor Farm.....	42 48	217
	\$1,757 72	936

REPAIRING BRIDGES.

STREET.	COST.
Aiken	\$142 12
Bridge	5 91
Bridge	3 50
Cabot	1 75
Congress	10 59
Lundberg	32 75
Market	60 64
Lawrence	406 88
Moody	7 88
Market	5 63
Newhall	1 75
Pawtucket	11 25
School	95 55
	<hr/>
	\$786 20

PAVING AIKEN STREET BRIDGE

	LABOR.	STOCK.
Labor per pay rolls.....	\$2,920 08	
Filing Saws.....		\$ 13 00
Pitching and Tarring.....		369 92
Waterproof Covering.....		920 00
Spikes.....		137 60
Castings.....		61 17
Pitch.....		41 28
Insurance.....		175 21
Lunch.....		9 40
Paving Blocks.....		5,569 20
Lumber.....		1,898 40
Total Cost..... \$12,115 26	\$2,920 08	\$9,195 18

BUILDING FENCES.

STREET.	COST.
By	\$125 41
Bridge	48 13
Chelmsford	237 45
Lincoln	21 26
Mammoth Road	27 86
Nesmith	20 38
Truant School	101 63
	\$582 12

RELAYING CROSSINGS.

STREETS.	LOCATION.	COST.	LENGTH IN FEET.
Anne.....	At French St.....	\$10 87	40
Cabot.....	" Hall St.....	22 13	80
Cabot.....	" Cheever St.....	10 76	50
Central.....	" Middlesex St.....	38 81	170
Central.....	" B. & M. Station.....	45 37	237
Gorham.....	" Central St.....	17 25	76
Market.....	" Lewis St.....	11 25	48
Middlesex...	" Central St.....	37 07	168
Moore.....	" Sidney St.....	25 25	80
South.....	" Summer St.....	22 57	25
Tyler.....	" No. 61.....	17 29	64
Tyler.....	" George St.....	18 77	68
Willie.....	" Broadway.....	19 72	72
Westford...	" Foster.....	18 57	70
Worthen....	" No. 335.....	21 63	72
Wilder.....	" Broadway.....	11 63	68
Worthen....	" Broadway.....	15 50	63
		\$364 44	1,451



AIKEN STREET BRIDGE, LOOKING NORTH, RELAYING FLOOR, PLANKING.

RELAYING SIDEWALKS.

STREET.	COST	AREA IN YARDS.
Alder.....	\$ 34 10	116
Bartlett.....	139 62	697
Broadway.....	1 75	4
Central.....	11 88	17
Centre.....	5 82	28
Cabot.....	5 90	18
East Merrimack.....	71 33	309
John.....	61 09	264
Fayette.....	50 25	152
High.....	28 13	108
Hurd.....	23 38	61
Lee.....	19 25	126
Middlesex.....	107 61	327
Merrimack.....	22 22	108
Moody.....	12 62	55
Market.....	9 85	41
Myrtle.....	1 94	5
Suffolk.....	6 32	20
South.....	38 73	211
William.....	18 89	62
	\$670 68	2,729

REMOVING SNOW.

January.....	\$16,021 42
February.....	21,207 12
March.....	6,765 43
November.....	53 38
December.....	831 51
	\$44,878 86

REPORT OF THE
CLEANING STREETS.

MONTH.	CLEANING.	SWEEPING.	SPARROW GANG.
January.....			\$1,681 26
February.....			1,231 50
March.....	\$ 831 08	\$ 479 97	1,473 01
April.....	1,237 58	746 86	1,557 61
May.....	1,531 32	623 31	1,840 77
June.....	1,364 02	626 82	1,810 37
July.....	968 80	606 64	1,843 60
August.....	1,648 20	671 61	1,982 76
September.....	1,724 93	611 32	1,893 21
October.....	1,785 72	579 53	1,820 68
November.....	1,022 27	683 11	1,949 00
December.....	86 75	86 26	1,856 44
	\$12,200 67	\$5,715 43	\$20,940 21

NEW EDGESTONES.

STREET.	LABOR.	STOCK.	TEAMING.	NET COST.	LENGTH IN FEET
Ardell.....	\$ 29 69	\$ 122 34	\$ 4 75	\$ 156 78	284.6
Aiken Avenue.....	41 93	26 66	4 50	73 09	62.
By.....	3 01	12 90	1 00	16 91	30.
Barker.....	67 30	265 21	9 35	341 86	590.
Cheever.....	7 40	19 57	56	27 53	45.
Chelmsford.....	212 43	558 87	23 50	794 80	1,229.9
Essex.....	120 94	287 03	10 44	418 41	667.6
Exeter.....	43 93	115 19	4 34	163 46	268.
Ford.....	27 48	66 81	2 12	96 41	151.9
Grace.....	58 32	218 66	5 44	282 42	509.
Jenness.....	371 09	949 57	55 82	1,376 48	2,194.2
John.....	5 93	20 21	1 50	27 64	47.
High.....	46 90	261 87	6 19	314 96	609.
Hildreth.....	139 23	546 96	17 00	703 19	1,272.
Ina.....	43 00	187 59	6 25	236 84	425.
Highland Ave.....	6 47	33 54	5 00	45 01	78.
Livingston Ave.....	3 74	17 20	1 25	22 19	40.
Lincoln.....	88 48	300 36	12 32	401 16	698.6
Main.....	240 25	709 75	29 05	979 05	1,579.6
Mammoth Road.....	3 75	16 34	1 25	21 34	38.
Moore.....	3 13	17 20	25	20 58	40.
Merrimack.....	85 21	132 01	6 00	223 22	307.
Market.....	38 62	79 55	4 25	122 42	185.

NEW EDGESTONES — CONTINUED.

STREET.	LABOR.	STOCK.	TEAMING.	NET COST.	LENGTH IN FEET.
Otis.....	\$100 29	\$193 84	\$15 25	\$309 38	436.6
Sarah Ave.....	45 77	100 77	7 56	154 10	220.
Tenth.....	12 51	47 09	2 00	61 60	109.6
Walnut.....	1 88	4 73	25	6 86	11.
	\$1,848 68	\$5,311 82	\$237 19	\$7,397 69	12,128.6

MACADAMIZED STREETS.

STREET.	LOCATION.	LABOR.	STOCK.	TEAMING.	NET COST.	AREA IN YARDS.
Anne.....	Northerly.....	\$ 100 86	\$ 163 80	\$ 20 25	\$ 284 91	824
Abbott.....	Howard to Stevens.....	217 44	162 50	38 00	417 94	1,105
Burt.....	Westford to Pine.....	568 93	1,015 30	193 25	1,777 48	2,451
Bowers.....	Salem to Fletcher.....	251 19	169 00	46 00	466 19	1,300
Chestnut.....	High to Willow.....	239 35	569 40	126 75	935 50	1,484
Chester.....	Westford to Princeton.....	196 10	260 00	59 00	515 10	1,226
Elliott.....	Middlesex to Appleton.....	103 10	386 10	37 75	526 95	891
Fourth.....	Read to Myrtle.....	277 14	271 70	134 00	682 84	2,252
Fletcher.....	Broadway to Clarke.....	297 57	1,690 00	131 75	2,119 32	5,040
Howard.....	Chelmsford to Wilson.....	272 33	326 80	105 00	704 13	1,751
Loring.....	Westford to Grove.....	144 64	419 90	45 00	609 54	1,820
Meadowcroft.....	Southerly.....	503 91	1,014 00	241 50	1,759 41	2,022
Nicolet.....	Harvard to Stevens.....	257 29	577 20	95 50	929 99	1,400
Rogers.....	Knapp Ave. to City Line.....	383 84	401 70	45 00	830 54	4,018
Sixth.....	Varnum to Bridge.....	325 57	972 40	231 63	1,529 60	2,700
Stevens.....	Westford to Middlesex.....	576 32	1,370 20	119 75	2,066 27	5,693
Sherman.....	High to Hanks.....	137 11	359 20	62 25	558 56	1,779
Third.....	Bridge to Beacon.....	529 40	557 70	66 00	1,153 10	8,805
Tyler.....	Central to Lawrence.....	349 84	1,024 40	147 63	1,521 87	3,361
West Third.....	Bridge to Coburn.....	645 94	1,049 10	320 25	2,015 29	2,900
Willie.....	Cross to Broadway.....	67 26	45 50	18 00	130 76	891
Walnut.....	Chapel to Gorham.....	349 82	943 80	123 75	1,417 37	824
		\$6,794 95	\$13,749 70	\$2,408 01	\$22,952 66	54,537

NEW SIDEWALKS.

STREET.	LABOR.	EDGESTONE.	CONCRETE.	NET COST.
Ardell.....	\$ 34 44	\$ 122 34		\$ 156 78
Aiken Ave.....	46 43	26 66		73 09
Barker.....	76 65	265 21		341 86
Chelmsford.....	235 93	558 87		794 80
Crowley.....			\$276 12	276 12
Cheever.....	7 96	19 57		27 53
C.....			429 83	429 83
Essex.....	131 38	287 03		418 41
Exeter.....	48 27	115 19		163 46
Ford.....	29 60	66 81		96 41
Grace.....	63 76	218 66		282 42
High.....	53 09	261 87	76 50	391 46
Hildreth.....	156 23	546 96		703 19
Ina.....	49 25	187 59		236 84
Jenness.....	426 91	949 57		1,376 48
Lincoln.....	100 80	300 36		401 16
Main.....	269 30	709 75		979 05
Otis.....	115 54	193 84		309 38
Pine.....	12 79	30 04	20 88	63 71
Porter.....			108 72	108 72
Sixth.....			87 42	87 42
Sarah Ave.....	53 33	100 77		154 10
Varnum Ave.....			996 60	996 60
	\$ 1,901 66	\$4,961 09	\$ 1,996 07	\$ 8,868 82

NEW GRANITE CROSSINGS.

STREET	LOCATION.	LABOR.	STOCK.	NET COST.	LENGTH IN FEET.
Broadway.....	At Wilder Street.....	\$ 10 93	\$ 35 36	\$ 46 29	68
Broadway.....	" ".....	11 64	40 56	52 20	78
Broadway.....	" Normal School.....	34 88	37 44	72 32	72
Central.....	" Trust Company.....	45 20	59 28	104 48	114
Foster.....	" Pine.....	26 00	29 12	55 12	56
Gorham.....	" Ellsworth.....	17 35	37 44	54 79	72
Gorham.....	" Olney.....	12 37	26 00	38 37	50
Lincoln.....	" Eaton.....	20 26	43 68	63 94	84
Moore.....	" State.....	37 39	31 20	68 59	60
Merrimack.....	" Suffolk.....	33 63	53 04	86 67	102
Middlesex.....	" Robeson.....	29 49	42 64	72 13	82
Powell.....	" C.....	24 82	32 76	57 58	63
Powell.....	" B.....	27 35	32 76	60 11	63
Pine.....	" Highland Ave.....	24 76	36 40	61 16	70
Sheldon.....	" Gates.....	37 50	31 72	69 22	61
Wilder.....	" Broadway.....	29 06	30 16	59 22	58
Wilder.....	" Broadway.....	17 00	19 24	36 24	37
West Fourth.....	" Albion.....	36 25	35 36	71 61	68
Westford.....	" Tyler Park.....	34 33	39 52	73 85	63
		\$510 21	\$693 68	\$1,203 89	1,328

GRADING STREETS.

STREET.	COST.	LENGTH. IN FEET.
Auburn.. .. .	\$ 37 13	\$ 357
Ardell.....	52 20	159
Butman Road (Cinders).....	96 65	1,100
By.....	1,782 61	900
Barker.....	206 34	413
Billings.....	8 44	200
Butler Ave.....	24 50	234
Burgess.....	55 51	170
Blossom.....	84 00	350
B.....	253 75	600
Christian.....	921 75	700
Clitheroe (Cinders).....	13 00	325
Campaw.....	281 99	357
Columbus Ave.....	37 23	236
Cottage.....	5 87	100
Carter.....	87 25	355
Canada.....	511 27	900
Cross.....	65 00	330
Dover.....	150 03	607
Dunfey.....	97 75	310
Dalton.....	152 74	255
Essex.....	185 98	870
Exeter.....	231 86	650
Ennell.....	234 91	555
Fourth Ave.....	141 00	350
Foster.....	214 25	1,125
Fort Hill Ave.....	10 97	25
Highland Ave.....	115 26	200
Hildreth.....	28 25	800
Hudson.....	24 75	90
Hastings.....	178 44	250
Inland.....	18 19	89
Ina.....	78 63	250
King.....	21 12	231
Livingston.....	96 04	990
Livingston Ave.....	228 38	596
Lincoln.....	1,232 65	3,750
Liberty.....	51 09	235
Lipton.....	244 68	400



ROOTS IN SEWER BRANCH, No. 20 CANTON STREET, CLEAR OPENING LESS THAN $\frac{1}{2}$ -INCH IN DIAMETER

GRADING STREETS—CONTINUED.

STREET.	COST.	LENGTH IN FEET.
Lawrence.....	\$109 75	300
Ludlam.....	259 09	555
Maple (Cinders).....	151 94	1,000
Maple.....	1,774 53	945
Merrill.....	21 25	108
Nicollet.....	17 25	50
Oakland.....	191 91	750
Olive.....	27 00	144
Prospect.....	12 75	100
Parker.....	37 00	60
Railroad.....	131 05	834
Sutherland.....	36 00	225
Sarah Ave.....	649 15	420
School.....	280 73	1,080
Smith.....	63 09	664
Stevens.....	2,070 64	4,230
Sanders Ave.....	122 34	250
Sixth Ave.....	128 25	450
Third (Cinders).....	145 63	479
Third.....	51 38	150
Tenth.....	51 72	300
West Sixth.....	128 82	200
West London.....	40 92	140
West (Centralville).....	413 16	805
Worthen.....	321 96	846
Willow.....	65 90	581
West (Ayer's City).....	55 25	235
	\$15,619 92	36,315

CINDER SIDEWALKS.

STREET.	COST.	LENGTH IN FEET.
Avon.....	\$49 25	560
Adams.....	13 06	282
Blodgett.....	28 47	750
Bertram.....	38 42	458
By.....	101 39	1,800
Broadway.....	32 25	475
Boyleston.....	262 47	1,776
Blossom.....	79 00	2,396
Barker.....	36 22	475
B.....	2 81	100
Crawford.....	159 88	1,345
Chelmsford.....	187 56	940
Chestnut.....	6 50	96
Dalton.....	19 88	330
Everett.....	9 75	225
Essex.....	75 01	624
Exeter.....	56 34	369
Fourth Ave.....	41 12	2,783
Georgia Ave.....	11 69	400
Grace.....	8 69	540
Gorham.....	21 25	690
Grand.....	16 13	140
Gates.....	15 12	135
Gershom Ave.....	59 81	1,065
Houghton.....	16 37	175
Holyrood Ave.....	17 53	317
Hildreth.....	58 11	1,500
Highland Ave.....	214 66	2,347
Hale.....	5 63	200
Inland.....	59 67	650
Jenness.....	140 93	2,334
Liberty.....	8 68	270
Lincoln.....	70 19	2,089
Ludlam.....	10 44	213
Lipton.....	62 38	810
Lagrange.....	13 82	295
Magnolia.....	29 05	228
Mt. Grove.....	77 94	555
Mt. Hope.....	35 06	525
Main.....	72 38	1,700

CINDER SIDEWALKS — CONTINUED.

STREET.	COST.	LENGTH IN FEET.
Mead.....	29 50	810
Oakland.....	17 53	250
Otis.....	38 62	464
Pine.....	61 69	725
Reservoir.....	88 01	543
Riverside.....	23 38	156
Sanders Ave.....	39 57	375
Sixth Ave.....	62 47	350
South Highland.....	3 66	50
Shaw.....	4 35	90
St. James.....	3 62	50
Sidney.....	35 25	780
Suffolk Court.....	9 63	175
Sarah Ave.....	59 00	730
Tanner.....	113 75	1,100
Varnum Ave.....	36 97	500
Wilder.....	61 50	900
Westford.....	4 56	180
White.....	61 69	1,000
	\$2,979 66	42,190

CONCRETE CROSSINGS REPAIRED IN 1904.

STREET.	LOCATION.	COST.	SQ. YDS.
Belmont.....	At Pine St., hard concrete.....	\$ 31 80	31.8
Chambers.....	" Pine Hill St., hard top dressing....	15 41	23.0
Chester.....	" Princeton St., hard top dressing....	24 36	34.8
Dover.....	" Branch St., hard concrete.....	39 30	39.3
Edson.....	" Westford St., hard top dressing....	19 38	28.4
Eighth.....	" Methuen St., hard concrete.....	15 50	15.5
Eighth.....	" Methuen St., hard top dressing....	10 85	15.5
Elliott.....	" Middlesex St., hard concrete.....	23 45	33.5
Grove.....	" Coral St., hard concrete.....	37 00	37.0
Holyrood Ave.	" Hovey St., hard top dressing.....	33 37	5.0
Holyrood Ave.	" Hovey St., hard concrete.....	41 70	41.7
Hovey.....	" Wentworth Ave., hard concrete....	4 40	4.4
Hovey.....	" Wentworth Ave., hard top dressing	3 48	5.2
Kimball Ave..	" Queen St., hard top dressing.....	13 30	19.0
Lawson.....	" Queen St., hard top dressing.....	27 79	39.7
Madison.....	" Gorham St., hard concrete.....	15 80	15.8
Mansur.....	" Wentworth Ave., hard concrete ..	7 10	7.1
Mansur.....	" Wentworth Ave., hard top dressing	3 15	4.7
Marlborough..	" Pine St., hard concrete.....	3 90	3.9
Middlesex.....	" Wilder St., hard top dressing.....	3 15	4.5
Princeton.....	" Wilder St., hard top dressing.....	22 26	31.8
Read.....	" N. S. Sixth St., hard top dressing.	24 64	35.2
Read.....	" S. S. Sixth St., hard top dressing..	23 80	34.0
Simpson.....	" Third St., hard concrete.....	30 70	30.7
Sixth.....	" Read St., hard top dressing.....	27 02	38.6
Wilder.....	" Middlesex St., hard top dressing...	37 17	53.1
Wilder.....	" Princeton St., hard top dressing...	12 18	17.4
		\$521 96	650.6

RESOLUTIONS PASSED BUT SIDEWALKS NOT COMPLETED.

STREET.	LOCATION.	WHEN PASS'D	LIN. FT. OF EDGE TO BE LAID
Genoa Ave....	Both sides Sarah Ave. to Bodwell Ave., edge and cinders.....	1904	1,198.00
King.....	W. S. from Middlesex St. to Jackson St., edge and cinders.....	1904	206.00
			1,464.00

CONCRETE PAVEMENT REPAIRED IN 1904.

STREET.	LOCATION.	COST.	SQ. YDS.
Bridge.....	B. S. Between Merrimack Square and Central Bridge (Bicycle Path) hard top dressing.	\$ 89 88	128.4
Chelmsford...	E. S. Bicycle Path, hard top dressing	111 30	159.0
Pawtucket....	S. S. Between School and Mt. Vernon Sts.....	296 40	442.4
"	N. S. Between School and Salem Sts.	244 65	349.5
"	S. S. Between Mt. Washington and Salem Sts.....	194 60	278.0
		\$936 83	1357.3

CONCRETE SIDEWALKS REPAIRED IN 1904.

STREET.	LOCATION.	COST.	SQ. YDS.
Aiken.....	W. S. From Moody St., northerly.....	\$12 82	28.5
Bartlett.....	S. S. Between High and Alder Sts....	222 67	458.9
"	N. S. From Alder St. easterly.....	18 27	40.6
Belmont.....	W. S. No. 3.....	5 69	12.7
Branch.....	S. S. No. 16.....	2 02	4.3
Bridge.....	S. E. Between No. 881 and Thirteenth St.....	2 70	6.0
Chambers.....	N. S.	13 50	30.0
Charles.....	S. S. At Training School House.....	1 80	4.0
Chelmsford...	W. S. Between Westford and Howard Sts.....	9 81	21.8
Chestnut.....	N. S. Between High and Ash St.....	49 42	109.8
Coburn.....	E. S. Between Lakeview Ave. and Jewett St.....	3 60	8.0
Cushing.....	N. S. From Clapp's Stable, westerly..	73 40	163.1
Davidson.....	W. S. Near East Merrimack.....	9 20	9.2
Dover.....	W. S. Between Grove and Branch Sts.	10 21	22.7
"	E. S. " " " " " "	22 27	49.5
E. Merrimack.	S. S. From High St., easterly.....	18 90	42.0
" "	N. S. Between Stackpole and Brown Sts.....	164 56	365.7
" "	N. S. No. 364.....	1 48	3.3
Elliott.....	S. S.	55 03	122.3
"	W. S.	103 57	201.2
First.....	S. S. From No. 9, easterly.....	1 80	4.0
"	S. S. Front No. 65.....	90	2.0
Fort Hill Ave..	W. S. Between Andover and Oak Sts..	7 65	17.0
Franklin.....	N. S. At Willie St.....	5 49	12.2
Front.....	W. and N. Sides.....	4 50	10.0
Gates.....	W. S. From Marshall St., easterly....	5 62	12.5
Hastings.....	B. S.	7 74	17.2
High.....	E. S. At East Merrimack St.....	3 15	7.0
"	E. S. Between East Merrimack and Bartlett Sts.....	45 04	100.1
"	W. S. At Chestnut St.....	2 61	5.8
James.....	W. S.	27 54	61.2
"	E. S.	21 46	47.7
Jefferson.....	E. S.	25 80	25.8
Kitson.....	N. S.	45	1.0

CONCRETE SIDEWALKS REPAIRED IN 1904 — CONTINUED.

STREET.	LOCATION.	COST.	SQ. YDS.
Lakeview Ave.	S. S. From Front St., easterly and No. 64.....	\$5 26	11.7
Marshall.....	N. S. Between Carlton and Gates Sts.	16 02	35.6
Methuen.....	E. S. Between Seventh and Tenth Sts.	54 81	121.8
Middlesex SS.	S. S. Between Howard St. and R. R. Crossing.....	2 65	5.9
"	N. S. Front No. 187.....	20 10	20.1
Moody.....	N. S. From Aiken St., westerly.....	5 58	12.4
Moore.....	N. S. Between Gorham and Bleachery Sts.....	11 25	25.0
Mt. Vernon...	W. S. Front No. 115.....	1 66	3.7
Myrtle.....	E. S. Between Third and Sixth Sts...	11 30	11.3
"	E. S. From Third St., northerly.....	34 33	76.3
Nesmith.....	W. S. From East Merrimack St., southerly.....	22 09	49.1
Oak.....	S. S.	17 10	38.0
"	N. S. Front No. 4.....	3 65	8.1
Pine.....	N. S. At A. T. Smith's.....	4 90	4.9
Queen.....	W. S. Between Lawson and Somerset Sts.....	7 83	17.4
Read.....	W. S. Front No. 56.....	6 16	13.7
Sixth.....	S. S. From Read St., easterly.....	54 36	120.8
"	N. S. Between Fremont and Beacon..	19 08	42.4
Smith.....	W. S. Between Branch and Westford Sts.....	11 65	25.9
South.....	W. S. Between Appleton and Summer Sts.....	45 94	102.1
"	E. S. Between Middlesex and Apple- ton Sts.....	84 64	167.8
So. Nichols...	E. S.	9 67	21.5
Stevens.....	E. S. Between Princeton and West- ford Sts.....	9 09	20.2
"	E. S. Between Princeton and Middle- sex Sts.....	49 23	109.4
Summer.....	N. S. From South St., westerly.....	4 41	9.8
Third.....	N. S. From Myrtle St., easterly.....	35 10	78.0
Tremont.....	W. S. Between Moody and Merrimack Sts.....	12 64	22.1
Varnum.....	W. S. At Sixth St.....	2 67	8.9

CONCRETE SIDEWALKS REPAIRED IN 1904 — CONTINUED.

STREET.	LOCATION.	COST	SQ. YDS.
Wentworth Ave	E. S. Near Hovey St.....	\$ 94	2.1
Westford.....	N. S. At Foster St.....	4 50	10.0
Willie.....	W. S. Front No. 91.....	4 90	10.9
"	E. S. At Franklin St.....	2 20	4.9
Worthen.....	E. S. Between Broadway and Kitson Sts.....	25 20	56.0
"	W. S. Between Broadway and Kitson Sts.....	20 25	45.0
"	E. S. At Broadway.....	1 98	4.4
"	W. S. Between Broadway and Kitson Sts.....	72 90	162.0
Whitney Ave..	S. S.	90	2.0
		\$1,657.61	3508.3



AIKEN STREET BRIDGE, NORTH SPAN, LOOKING NORTH, SHOWING WOOD BLOCK PAVING LAID.

CONCRETE SIDEWALKS TOP DRESSED IN 1904.

STREET.	LOCATION.	COST.	SQ. YDS.
Aiken.....	W. S. From Moody St., westerly.....	\$ 12 46	27.7
Bartlett.....	N. S. From Alden St., easterly.....	51 66	172.2
Bridge.....	E. S. Between Seventh and Eighth Sts.	19 92	66.4
"	E. S. Between Ninth and Tenth Sts..	64 86	216.2
"	E. S. Between No. 881 and Thirteenth St.....	51 30	171.0
"	E. S. Opposite No. 880.....	4 20	14.0
Central.....	W. S. From Chapel St., northerly....	25 47	84.9
Chambers.....	N. S.	89 28	297.6
Charles.....	S. S. At Training School House.....	1 85	4.1
Chelmsford...	W. S. Between Westford and Howard Sts.....	79 11	263.7
Coburn.....	E. S. Between Lakeview Ave. and Jewett Sts.....	68 74	202.5
Concord.....	E. S. from Pond St., southerly.....	15 42	51.4
Cushing.....	N. S. From Clapp's Stable, westerly...	54 60	182.0
Davidson.....	W. S. Near East Merrimack St.....	3 99	5.7
Dover.....	W. S. Between Grove and Branch Sts.	105 57	351.9
"	E. S. Between Grove and Branch Sts.	102 33	341.1
E. Merrimack.	S. S. From High St., easterly	10 56	35.2
Edson.....	W. S. Near Westford St.....	6 37	9.1
Elliott.....	E. S.	19 17	63.9
First.....	S. and N. Sides, Nos. 9, 65, 12, 18 & 20	48 43	161.6
Fort Hill Ave..	W. S. Between Andover and Oak Sts.	39 27	130.9
Foster.....	W. S. Between Pine and Westford Sts.	167 74	545.0
Fourth.....	S. S. Front No. 71.....	3 06	10.2
Franklin.....	N. S. At Willie St.....	10 22	14.6
Front.....	W. and N. Sides.....	22.68	75.6
Gibson.....	W. S.	46 56	155.2
"	E. S.	18 51	61.7
Grove.....	N. S. Between Dover and Wilder Sts.	49 44	164.8
"	N. S. Between Manahan and Walker Sts.....	35 37	117.9
Harrison.....	W. S.	45 56	155.2
High.....	E. S. At Engine House.....	4 71	15.7
"	E. S. From Porter St., northerly	11 10	37.0
"	E. S. At East Merrimack St.....	9 15	30.5.
"	E. S. Between East Merrimack and Bartlett Sts.....	13 01	43.7

CONCRETE SIDEWALKS TOP DRESSED IN 1904 — CONT.

STREET.	LOCATION.	COST.	SQ. YDS.
James.....	W. S.	\$33 06	110.2
“	E. S.	25 05	83.5
Jefferson.....	E. S.	54 81	174.2
“	W. S.	45 60	152.0
Kitson.....	N. S.	33 99	113.3
Lakeview Ave.	N. S.	23 71	52.7
“	N. S. From Coburn St., easterly.....	22 58	64.2
“	N. S. From Bridge St., westerly.....	90 06	300.2
“	S. S. No. 64 and Front St., easterly..	16 94	56.4
“	S. S. Between Front St., and No. 94	62 16	207.2
Lane.....	E. S. From Westford St., southerly..	35 72	96.0
Mansur.....	N. S. from No. 68, easterly.....	50 43	168.1
Marlborough..	E. S.	163 23	544.1
“	W. S.	150 81	502.7
Merrimack Sq.	S. S. Near Concord River.....	24 12	80.4
Methuen.....	E. S. Between Seventh and Tenth Sts.	74 58	248.6
Middlesex St..	N. S. Front No. 187.....	59 71	85.3
Moody.....	S. S. Front No. 472.....	3 93	13.1
“	N. S. From Aiken St., westerly.....	12 12	40.4
Moore.....	N. S. Between Gorham and Bleachery Sts.....	96 72	322.4
Myrtle.....	W. S. Between Fourth and Sixth Sts..	90 60	302.0
“	E. S. Between Third and Sixth Sts..	64 86	216.2
Nesmith.....	W. S. From East Merrimack St., southerly.....	70 47	234.9
Nichols.....	N. S.	20 49	39.5
Oak.....	S. S.	78 60	262.0
Pine.....	N. S. Between Gibson and Foster Sts.	17 97	59.9
Porter.....	N. S. Between High St. and Fort Hill Ave.....	47 28	157.6
Princeton.....	N. S. Between Canton and Wilder Sts.	24 24	80.8
Salem.....	N. S. From Decatur St., easterly.....	18 27	60.9
Sixth.....	N. S. From Fremont St., easterly....	10 80	36.0
“	S. S. From Read St., easterly.....	36 24	120.8
Smith.....	E. S. Between Branch and Westford Sts.....	97 02	267.4
“	W. S. Between Branch and Westford Sts.....	68 15	201.3
Smith Ave....	E. S.	55 82	159.8

CONCRETE SIDEWALKS TOP DRESSED IN 1904 — CONT.

STREET.	LOCATION.	COST.	SQ. YDS.
Smith Ave....	W. S.	\$45 93	125.5
South.....	W. S. Between Appleton and Summer Sts.....	30 60	102.0
Stevens.....	E. S. Between Princeton and Middle- sex Sts.....	16 41	54.7
"	W. S. Between Princeton and Westford Sts.....	16 29	54.3
Summer.....	N. S. From South St., westerly	2 97	9.9
Thorndike....	W. S. From Hale St., southerly.....	111 78	360.2
Tremont.....	W. S. Between Moody and Merrimack Sts.....	29 67	98.9
Varnum.....	W. S. At Sixth St.....	4 00	8.9
Westford.....	N. S. From Edson St., easterly.....	4 26	14.2
"	S. S. From Burtt St., westerly.....	9 09	30.3
"	S. S. Between Burtt St. and Stevens St.....	43 74	145.8
"	S. S. Between Marlborough and Robbins Sts.....	25 29	84.3
"	N. S. Between Stevens and Edson Sts.	22 32	74.4
Wilder.....	W. S. At Middlesex St.....	5 74	8.2
"	E. S. From Middlesex St., southerly..	32 49	108.3
Whitney Ave..	E. and N. Sides.....	34 68	115.6
"	S. S.	71 31	237.7
Worthen.....	W. S. Between Broadway and Kitson St.....	4 35	14.5
"	E. S. Between Broadway and Kitson St	80 89	269.6
		\$3,683 62	5711.6

STREETS LAID OUT AND ACCEPTED IN 1904.

STREET.	LOCATION.	WIDTH IN FT.	LENGTH IN FEET.
Barker.....	From Exeter St. to Hovey Ave.....	40	276.1
Fourth Ave....	" Mount Hope St. to Moody St..	60	634.0
Genoa Ave....	" Sarah Ave. to Bodwell Ave....	40	619.0
Highland Ave.	" Pine St. to Parker St.....	40	1,381.6
Lipton.....	" Midland St. to Forrest St.....	40	345.0
Street.....	Land at Junction of Butman Road, Hovey St., and Holyrood Ave.		
			3,255.7 or 0.62 Miles

Number of miles of accepted streets January 1, 1904..... 126.39

Number of miles of streets accepted in 1904..... 0.62

Number of miles of accepted streets January 1, 1905..... 127.01

RESETTING EDGESTONES.

STREET.	COST.	LENGTH IN FEET.
Alder.....	\$ 26 25	184
Bartlett.....	207 47	1,569
Broadway.....	1 75	35
Crowley.....	13 50	150
Chelmsford.....	10 92	150
Elliott.....	69 57	490
East Merrimack.....	127 37	850
Fayette.....	5 50	55
Grove.....	39 89	265
Howard.....	4 38	40
High.....	28 12	230
Hildreth.....	6 55	100
Hurd.....	7 50	50
James.....	89 42	500
John.....	32 07	238
Livingston.....	3 66	100
Liberty.....	7 22	120
Lawrence.....	40 75	330
Moore.....	9 38	90
Marshall.....	6 01	71
Middlesex.....	11 50	120
Marlborough.....	3 34	40
Methuen.....	4 37	40
Meadowcroft.....	4 22	57
Merrimack.....	28 40	420
Moody.....	6 31	64
Sixth.....	7 62	100
South.....	131 20	738
Stevens.....	50 03	180
Sixth.....	22 22	300
Westford.....	9 94	50
Worthen.....	95 53	500
William.....	4 36	40
	\$1,116 32	8,266

LEDGE.

	COST.
March.....	\$ 51 00
April.....	807 18
May.....	1,316 29
June.....	1,624 31
July.....	1,592 87
August.....	1,849 75
September.....	1,786 41
October.....	1,930 50
November.....	1,804 00
December.....	376 25
	<hr/>
	\$13,138 56

SUNDRY WORK

	COST.
Sundries.....	\$ 873 92
Screening Sand.....	889 21
Sanding Sidewalks.....	938 22
Teaming Sand.....	843 13
Repairing Streets.....	2,875 92
Grading Sidewalks.....	107 01
Wind Guards.....	117 25
Repairing Sidewalks.....	200 87
Lowering Driveways.....	30 97
Painting Bridges.....	204 00
Building Fountain.....	146 47
	<hr/>
	\$7,226 97

ASPHALT PAVEMENT REPAIRED.

STREET.	REPAIRED BY	AREA IN YARDS.	COST PER YARD.	TOTAL COST.
Aiken....	Union Paving Co.....	154.57	\$2 95	\$ 461 89
Gorham..	" " "	123.95	2 95	345 65
Hall.....	" " "	105.23	2 95	310 43
		383.75		\$1,117 97

CREO-RESINATE WOOD PAVEMENT.

STREET.	LOCATION.	SQUARE YARDS.	COST PER YARD.	TOTAL COST.
Aiken....	Bridge over Merrimack River	2,652	\$2 10	\$4,569 20

PERMITS GRANTED 1904.

Sewer Permits Granted.....	237
Inspections Made.....	233
Street Obstruction Permits Granted.....	102
Sewer Permits for Stopped Connections.....	23
Building Permits Issued.....	60

SEWER CONSTRUCTION.

TABLE SHOWING IN DETAIL COST OF SEWERS CONSTRUCTED IN 1904.

Avon Street Sewer No. 1.

Labor.....			\$767 18	
Sewer Pipe.....	\$	149 27		
Cement.....		8 08		
Repairing Water Pipe.....		6 75		
Oil.....		1 50		
Caps.....		3 75		
Dualin.....		6 21		
Sharpening Tools.....		90		
Use of Lumber.....		29 00		
Engineering.....		30 00		
Brick.....		8 75		
Castings.....		16 74		
Sand.....		1 00	\$261 95	\$1,029 13

Avon Street Sewer No. 2.

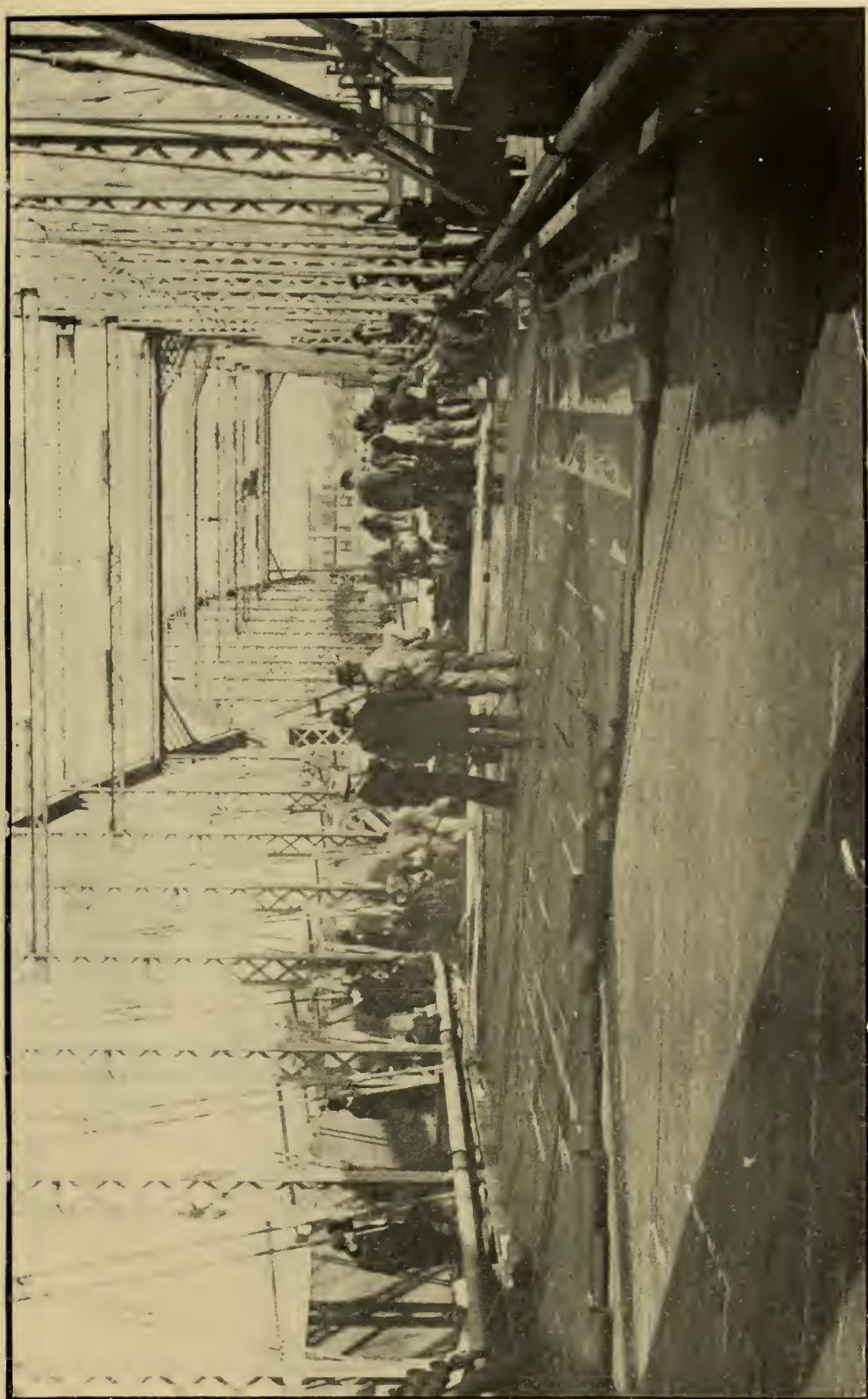
Labor.....			\$114 88	
Sewer Pipe.....	\$	25 81		
Cement.....		1 08		
Engineering.....		15 00	41 89	\$156 77

By Street Sewer.

Labor.....			\$1,721 26	
Sewer Pipe.....	\$	351 08		
Cement.....		42 00		
Oatmeal.....		3 25		
Dualin.....		8 28		
Caps.....		2 15		
Oil.....		1 00		
Use of Lumber.....		75 00		
Sharpening Tools.....		22 35		
Engineering.....		40 00		
Brick.....		43 75		
Castings.....		60 48		
Sand.....		4 00	\$653 34	\$2,374 60

Boisvert Street Sewer.

Labor.....			\$568 67	
Sewer Pipe.....	\$	185 54		
Cement.....		7 56		



AIKFN STREET BRIDGE, LAYING TAR PAPER AND BLOCK PAVING.

SEWER CONSTRUCTION—CONTINUED.

Boisvert Street Sewer—Continued.

Sharpening Tools.....	\$2 60		
Use of Lumber.....	44 00		
Engineering.....	15 00		
Brick.....	17 50		
Castings.....	32 40		
Sand.....	2 00	\$306 60	\$875 27

Beaulieu Street Sewer.

Labor.....		\$3,166 91	
Sewer Pipe.....	\$ 216 23		
Sharpening Tools.....	19 95		
Coal.....	7 00		
Oatmeal.....	6 75		
Caps.....	12 00		
Dualin.....	23 00		
Oil.....	2 50		
Repairing.....	4 96		
Use of Lumber.....	50 00		
Engineering.....	75 00		
Cement.....	7 56		
Brick.....	15 60		
Castings.....	28 08	\$468 63	\$3,635 54

Bridge Street Sewer.

Labor.....		\$250 93	
Engineering.....	\$ 15 00		
Brick.....	2 83		
Castings.....	4 05		
Sewer Pipe.....	46 31		
Cement.....	1 08		
Use of Lumber.....	10 00	\$79 27	\$330 20

Colonial Avenue Sewer.

Labor.....		\$3,118 54	
Cement.....	\$ 23 76		
Oatmeal.....	6 50		
Oil.....	2 00		
Dualin.....	11 50		
Tar Paper.....	1 15		
Caps.....	11 28		
Sewer Pipe.....	491 45		

SEWER CONSTRUCTION—CONTINUED.

Colonial Avenue Sewer—Continued.

Use of Lumber.....	\$ 100 00		
Brick.....	41 14		
Sand.....	4 00		
Use of Water.....	1 60		
Engineering.....	50 00		
Castings.....	70 74	\$815 12	\$3,933 66

Dana Street Sewer.

Labor.....		\$941 98	
Sewer Pipe.....	\$ 55 42		
Sharpening Tools.....	17 95		
Use of Lumber.....	35 00		
Engineering.....	25 00		
Cement.....	14 04		
Brick.....	18 38		
Castings.....	29 16		
Sand.....	2 00	\$196 95	\$1,138 93

Eaton Street Sewer.

Labor.....		\$204 56	
Sewer Pipe.....	\$ 62 55		
Cement.....	4 99		
Brick.....	8 75		
Castings.....	14 58		
Use of Lumber.....	15 00		
Engineering.....	5 00	\$110 87	\$315 46

Forrest and Stevens Streets Sewer.

Labor.....		\$29,058 14	
Engineering.....	\$ 200 00		
Sewer Pipe.....	1,353 88		
Oil.....	15 00		
Sharpening Tools.....	138 85		
Oatmeal.....	46 50		
Brick.....	2,848 41		
Teaming.....	703 50		
Lumber.....	1,509 31		
Cement.....	1,200 29		
Tar Paper.....	3 45		
Sand.....	111 00		
Caps.....	2 50		

SEWER CONSTRUCTION—CONTINUED.

Forrest and Stevens Streets Sewer—Continued.

Dualin.....	\$ 3 68		
Rubber Boots.....	10 50		
Castings.....	93 96		
Iron Pipe.....	75 41		
Repairing Pipe.....	15 30	\$8,331 54	\$37,389 68

Genoa and Bodwell Avenues Sewer.

Labor.....		\$1,680 13	
Sewer Pipe.....	\$621 70		
Oil.....	1 00		
Sharpening Tools.....	2 40		
Dualin.....	2 30		
Caps.....	1 87		
Oatmeal.....	6 50		
Use of Lumber.....	144 00		
Engineering.....	35 00		
Castings.....	104 22		
Cement.....	59 50		
Brick.....	95 54	\$1,074 03	\$2,754 16

Highland Avenue Sewer.

Labor.....		\$1,291 55	
Sewer Pipe.....	\$290 16		
Oil.....	50		
Use of Lumber.....	66 00		
Sand.....	4 00		
Engineering.....	30 00		
Cement.....	18 60		
Brick.....	27 13		
Castings.....	59 40	\$495 79	\$1,787 34

Hildreth Street Sewer.

Labor.....		\$825 69	
Sewer Pipe.....	\$113 74		
Sharpening Tools.....	13 65		
Oil.....	1 50		
Oatmeal.....	5 05		
Use of Lumber.....	28 00		
Engineering.....	25 00		

SEWER CONSTRUCTION—CONTINUED.

Hildreth Street Sewer—Continued.

Sand.....	\$ 2 00		
Cement.....	14 04		
Brick.....	20 13		
Castings.....	31 32	\$254 43	\$1,080 12

Lipton Street Sewer.

Labor.....		\$247 55	
Sewer Pipe.....	\$ 75 37		
Cement.....	8 75		
Oil.....	50		
Sharpening Tools.....	1 20		
Use of Lumber.....	18 00		
Engineering.....	15 00		
Brick.....	10 69		
Castings.....	16 74		
Sand.....	1 00	\$147 25	\$394 80

Riverside Street Sewer.

Labor.....		\$2,439 61	
Sewer Pipe.....	\$402 77		
Coal.....	42 02		
Oil.....	4 00		
Sharpening Tools.....	1 20		
Dualin.....	30 82		
Caps.....	5 62		
Use of Lumber.....	91 00		
Use of Water.....	7 34		
Engineering.....	45 00		
Cement.....	37 65		
Brick.....	39 39		
Sand.....	6 00		
Castings.....	70 74	\$783 55	\$3,223 16

Short Street Sewer.

Labor.....		\$276 01	
Sewer Pipe.....	\$136 95		
Sharpening Tools.....	1 60		
Oil.....	50		
Use of Lumber.....	31 00		
Engineering.....	10 00		
Cement.....	9 83		

SEWER CONSTRUCTION—CONTINUED.

Short Street Sewer—Continued.

Brick.....	\$ 17 50		
Sand.....	2 00		
Castings.....	27 00	\$236 38	\$512 39

Staples Street Sewer.

Labor.....		\$490 49	
Sewer Pipe.....	\$118 58		
Use of Lumber.....	28 00		
Engineering.....	20 00		
Cement.....	8 90		
Castings.....	17 82		
Brick.....	8 75		
Sand.....	1 00	\$203 05	\$693 54

Stronquist Avenue Sewer.

Labor.....		\$20,783 38	
Land Damage.....	\$ 710 00		
Brick.....	1,737 24		
Teaming.....	500 00		
Sand.....	26 25		
Cement.....	1,246 10		
Iron Pipe.....	1,368 56		
Oil.....	11 00		
Castings.....	80 83		
Sewer Pipe.....	10 77		
Engineering.....	132 65	\$5,823 40	\$26,606 78

Sanders Avenue Sewer.

Labor.....		\$1,182 32	
Engineering.....	\$ 30 00		
Sewer Pipe.....	162 70		
Use of Lumber.....	35 00		
Cement.....	14 82		
Castings.....	30 24		
Brick.....	14 18	\$286 94	\$1,469 26

Stevens, West Forrest and Clifford Streets.

Labor.....		\$9,591 51	
Engineering.....	\$75 00		
Cement.....	219 24		

SEWER CONSTRUCTION—CONTINUED.

Stevens, West Forrest and Clifford Streets—Continued.

Sand.....	\$12 00		
Brick.....	119 36		
Sewer Pipe.....	1,001 57		
Teaming.....	9 00		
Castings.....	123 66	\$1,559 83	\$11,151 34

Westford Street Sewer.

Labor.....		\$1,159 94	
Oil.....	\$2 50		
Caps.....	7 50		
Dualin.....	16 79		
Sharpening Tools.....	8 60		
Use of Lumber.....	50 00		
Use of Water.....	1 55		
Engineering.....	45 00		
Castings.....	30 24		
Sand.....	4 00		
Sewer Pipe.....	123 02		
Cement.....	17 50		
Brick.....	19 79	\$326 49	\$1,486 43

West Sixth Street Sewer.

Labor.....		\$876 63	
Sewer Pipe.....	\$218 67		
Oil.....	1 00		
Dualin.....	4 60		
Caps.....	1 87		
Use of Lumber.....	40 00		
Engineering.....	30 00		
Sharpening Tools.....	19 15		
Sand.....	2 00		
Castings.....	27 00		
Cement.....	10 50		
Brick.....	26 25	\$381 04	\$1,257 67

White Street Sewer.

Labor.....		\$3,820 12	
Sacks.....	\$ 8 00		
Engineering.....	148 00		
Cement.....	541 18		
Teaming.....	13 00		

SEWER CONSTRUCTION—CONTINUED.

White Street Sewer—Continued.

Coal.....	\$ 58 93		
Sand.....	3 00		
Iron Pipe.....	1,152 29		
Caps.....	3 00		
Rubber Boots.....	5 50		
Dualin.....	1 38		
Oil.....	2 50		
Oatmeal.....	6 75		
Sharpening Tools.....	24 00		
Granite Blocks.....	224 20	\$2,191 73	\$6,011 85

Woodcock Street Sewer.

Labor.....		\$774 73	
Sewer Pipe.....	\$99 03		
Use of Lumber.....	28 00		
Engineering.....	20 00		
Cement.....	11 06		
Sand.....	1 00		
Brick.....	8 75		
Castings.....	14 58	\$182 42	\$957 15

Wood Street Sewer.

Labor.....		\$204 34	
Engineering.....	\$18 00		
Oil.....	50		
Sewer Pipe.....	163 70		
Use of Lumber.....	20 00		
Cement.....	4 32		
Castings.....	27 00		
Brick.....	10 63	\$244 15	\$448 49

\$111,013 72

REPAIRS OF SEWERS.

TABLE SHOWING SEWERS REPAIRED IN 1904.

Gorham Street Sewer.

Labor.....		\$175 60	
Cement.....	\$ 5 25		
Brick.....	10 98		
Castings.....	16 74	\$32 97	\$208 57

Canton Street Sewer.

Labor.....		\$301 35	
Cement.....	\$ 7 56		
Brick.....	8 75		
Sewer Pipe	87 50		
Engineering.....	8 00	\$111 81	\$413 16

East Merrimack Street Sewer.

Labor.....		\$1,486 86	
Engineering.....	\$56 00		
Sewer Pipe.....	356 44		
Cement.....	25 47		
Brick.....	38 50		
Castings.....	40 50	\$516 91	\$2,003 77

City Hall Avenue Sewer.

Labor.....		\$1,042 17	
Engineering.....	\$42 00		
Sewer Pipe.....	104 79		
Cement.....	10 91		
Brick.....	28 36		
Castings.....	13 50		
Oil.....	2 00	\$201 56	\$1,243 73

John Street Avenue Sewer.

Labor.....		\$91 42	
Brick.....	\$ 8 75		
Cement.....	3 82		
Castings.....	54		
Sewer Pipe	1 90	\$15 01	\$106 43

Market Street Sewer.

Labor.....		\$88 87	\$88 87
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AIKEN STREET BRIDGE, LOOKING NORTH, FINISHING FLOOR PLANKING.

REPAIRS OF SEWERS—CONTINUED.

Whittier's Mill Sewer.

Labor.....		\$203 82	
Brick.....	\$27 50		
Cement.....	10 65		
Iron Pipe.....	26 00		
Engineering.....	20 50	\$84 65	\$288 47
			<hr/>
			\$4,353 00

STREET CATCH BASINS BUILT DURING THE YEAR 1904

NOTE.—Catch Basins marked thus * were rebuilt.

STREET.	LOCATION.	COST.
Abbott.....	N. side 30.2 ft. W. of W. side Lawrence St.	\$ 48 25
*Ash.....	E. side 12.7 ft. S. of S. side E. Merrimack St.	46 13
*Ash.....	W. side 14.7 ft. S. of S. side E. Merrimack St.	46 45
*Bartlett.....	S. side 13 ft. W. of W. side Alder St.....	41 76
*Bartlett.....	N. side 5.7 ft. W. of W. side Alder St.....	40 17
*Bartlett.....	N. side 192.6 ft. W. of W. side Alder St....	57 32
*Bartlett.....	N. side 313.7 ft. W. of W. side Alder St....	51 60
*Bartlett.....	N. side 480 ft. W. of W. side Alder St....	43 13
*Bartlett.....	N. side 10 ft. E. of E. side Alder St.....	51 70
Bellevue.....	E. side 6.5 ft. N. of N. side Thayer St.....	55 76
Bertram.....	S. side 6.5 ft. E. of E. side Georgia Ave	51 77
*Central.....	E. side 8.7 ft. S. of S. side Williams St.....	49 35
*Central.....	E. side 24.4 ft. S. of S. side Hurd St.....	47 35
*Chelmsford...	W. side 100 ft. N. of intersection Powell St..	51 61
*Chestnut.....	N. side 14 ft. E. of E. side Willow St.....	45 03
*Chestnut.....	S. side 6.5 ft. E. of E. side Willow St.....	45 03
*City Avenue..	Middle 61.6 ft. W. of W. side Palmer St....	52 59
Cumberland Road.....	E. side 7 ft. N. of N. side Ludlam St.....	47 02
*E. Merrimack	S. side 3.5 ft. W. of E. side Ash St.....	12 33
*E. Merrimack	N. side on line W. side James Court	45 82
*E. Merrimack	S. side 2.5 ft. W. of E. side Fayette St.....	57 10
*Elliott.....	E. side 9.2 ft. S. of S. side Middlesex St....	38 64
*Elliott.....	W. side 8.2 ft. S. of S. side Middlesex St....	33 02
Emery.....	S. side 15.5 ft. W. from stone bound at angle	69 64
Essex.....	W. side 6.0 ft. N. of N. side Leeds St.....	47 64
Essex.....	W. side 48.0 ft. N. of N. side Hovey Ave....	51 55
Essex.....	E. side 27.5 ft. N. of intersection Aiken Ave..	53 75
Exeter.....	W. side 13 ft. N. of N. side West Sixth St..	49 01
Exeter.....	E. side 1 ft. N. of N. side West Sixth St....	56 14
Fifth Ave....	N. side 4.6 ft. E. of E. side Dumfey St.....	57 59
Forrest.....	N. side 130.5 ft. W. of W. side Lipton St..	52 45
Forrest.....	S. side 130.5 ft. W. of W. side Lipton St....	50 01
Grace.....	W. side 7.2 ft. N. of N side Burgess St....	54 43
Grace.....	E. side 6 ft. N. of N. side of Burgess St....	56 12
Hawthorn....	E. side 8 ft. S. of S. side Pine St.....	44 48
Highland Ave.	E. side 988 ft. S. of S. side Pine St.....	58 35
Holyrood Ave.	E. side 14.8 ft. S. of S. side Hovey St.....	45 13

STREET CATCH BASINS BUILT DURING THE YEAR 1904.

NOTE.—Catch Basins marked thus * were rebuilt.—*Continued.*

STREET.	LOCATION.	COST.
Holyrood Ave.	W. side 8 ft. S. of S. side Hovey St.....	\$46 47
*Lakeview Ave.....	N. side 15 ft. W. of W. side Exeter St.....	51 86
*Lee.....	N. side 12 ft. W. of W. side John St.....	23 76
Leroy.....	S. side 10 ft. E. of E. side Loring St.....	45 57
Lipton.....	W. side at intersection Midland St.....	51 79
Livingston....	E. side 8.6 ft. N. of N. side Carter St.....	48 98
Livingston....	W. side at intersection Carter St.....	44 66
Main.....	E. side 8 ft. N. of N. side Plain St.....	42 71
Meadowcroft.	W. side 5.5 ft. N. of N. side Boston & Maine R. R.....	42 35
*Middlesex....	N. side 3.4 ft. E. of W. side Baldwin St....	54 36
Norcross.....	S. side 7 ft. E. of E. side Stevens St.....	53 20
Norcross.....	N. side 5 ft. E. of E. side Stevens St.....	54 27
Norcross.....	S. side 185 ft. E. of W. side South Wilder St.	47 62
Norcross.....	N. side 185 ft. E. of W. side South Wilder St.	46 45
Otis.....	E. side at intersection Otis St.....	51 31
Parker.....	N. side 2.5 ft. W. of W. side Stevens St....	61 61
Parker.....	S. side 5 ft. W. of W. side Stevens St.....	45 87
Pine.....	N. side 5 ft. W. of W. side Hawthorn St....	58 86
Riverside.....	N. side at intersection Mount Hope St.....	60 66
Sanders Ave..	W. side 6.5 ft. S. of S. side Pine St.....	51 21
Sutherland...	S. side 7 ft. W. of W. side Barker Ave.....	51 54
Stevens.....	W. side 147 ft. N. of stone bound N. line C. T. Killpatrick.....	72 47
Stevens.....	E. side 293 ft. N. of stone bound N. line C. T. Killpatrick.....	45 47
Stevens.....	W. side 497 ft. N. of stone bound N. line C. T. Killpatrick.....	43 69
Stevens.....	E. side 727 ft. N. of stone bound N. line C. T. Killpatrick.....	45 05
Stevens.....	W. side 551 ft. at angle S. of S. side Parker St.	48 38
Stevens.....	E. side 550 ft. at angle S. of S. side Parker St.	41 79
Third Ave....	S. side 317 ft. W. of W. side Mammoth Road	53 16
Tanner.....	E. side 51.5 ft. S. of S. side Howard St.....	77 87
Walden.....	N. side 6 ft. W. of W. side Oakland St.....	46 74
Westford.....	Track 13.5 ft. W. of W. side Dartmouth St.	23 50

STREET CATCH BASINS BUILT DURING THE YEAR 1904.

NOTE.—Catch Basins marked thus * were rebuilt.—*Continued.*

STREET.	LOCATION.	COST.
Westford.....	Track 4.7 ft. E. of E. side Tyler Park West	\$31 25
Westford.....	So. Track 0.5 ft. E. of E. side Osgood St....	23 04
Westford.....	No. Track 1 ft. W. of E. side Osgood St....	24 05
Worthen.....	W. side 10.5 ft. S. of S. side Broadway.....	63 64
Worthen.....	E. side 11 ft. S. of S. side Broadway.....	123 40
Worthen.....	W. side 36.5 ft. N. of N. side Kitson St....	64 10
Worthen.....	E. side 7.5 ft. N. of N. side Kitson St.....	136 39
		<hr/> \$3,804 32

TABLE SHOWING THE SEWERS BUILT DURING THE YEAR 1904, LENGTH, SIZE, MATERIAL, WHEN BEGUN, FINISHED AND COST.

STREETS.	Size and Length.			Material.	Cubic Yards Ledge.	Average Depth.	Manholes.	Begun.	Finished.	Cost.	Length.
	10"	12"	15"								
Avon, Southerly from 5th. Ave.....	285	.....	Portland Pipe	.....	9.1	1	April 14....	May 3.....	\$ 1,029 13	285
Avon, Northerly from 7th. Ave.....	80	.....	"	.....	8.0	.....	Aug. 8.....	Aug. 10....	156 77	80
Beaulieu.....	476	.....	"	275	9.4	2	July 19....	Sept. 2.....	3,635 54	476
Boisvert.....	437	.....	"	.....	9.0	2	July 18....	July 27....	875 27	437
Bridge.....	154	.....	.....	"	52	6.2	.....	Nov. 15....	Nov. 19....	330 20	154
By.....	745	.....	"	185	9.0	4	May 20....	June 14....	2,374 60	745
Canton, (Relaid).....	224	.....	"	.....	10.5	1	June 6....	June 11....	413 16	224
Colonial Ave.....	1000	.....	"	379	7.0	5	May 23....	June 23....	3,933 66	1,000
City Avenue, (Relaid).....	113	"	27	13.0	1	Sept. 8....	Oct. 5.....	1,243 73	113
Dana.....	348	.....	"	43	9.0	2	July 5.....	July 19....	1,138 93	348
E. Merrimack and Willow, (Relaid)...	197	410	"	.....	10.0	4	Aug. 22....	Sept. 7.....	2,003 77	607
E. Merrimack, Outlet, 24' 24".....	Iron Pipe.....	.....	10.0	1	Sept. 10....	Sept. 12....	288 47	28
Eaton.....	148	.....	Portland Pipe	.....	10.0	1	Aug. 10....	Aug. 13....	315 46	148
Forrest & Stevens, 2243' 20" x 30"	Portland Pipe	.....	13.7	16	May 13....	Sept. 16....	37,389 68	3,623
Brick, 1380' 18" Portland Pipe.....	and Brick..	.....	9.9	10	May 3....	May 23....	2,754 16	1,435
Genoa, Bodwell and Third Avenue	1435	.....	Portland Pipe	.....	9.4	3	June 15....	July 2.....	1,787 34	659
Highland Avenue.....	659	.....	"	.....	9.1	1	April 15....	April 23....	394 80	180
Lipton.....	180	.....	"	.....	6.2	2	Nov. 10....	Nov. 14....	448 49	302
Middlesex and Wood.....	302	.....	"	.....	7.5	5	April 20....	May 23....	3,223 16	911
Riverside.....	911	.....	"	100	8.5	2	Sept. 16....	Sept. 30....	1,469 26	556
Sanders Avenue, 95' 8" pipe.....	290	171	.....	"	.....	8.5	2	April 25....	May 2.....	512 39	310
Short.....	310	.....	"	.....	8.5	2	.....	.....	.....	.....

TABLE SHOWING THE SEWERS BUILT DURING THE YEAR 1904, LENGTH, SIZE, MATERIAL, WHEN BEGUN, FINISHED AND COST.—CONTINUED.

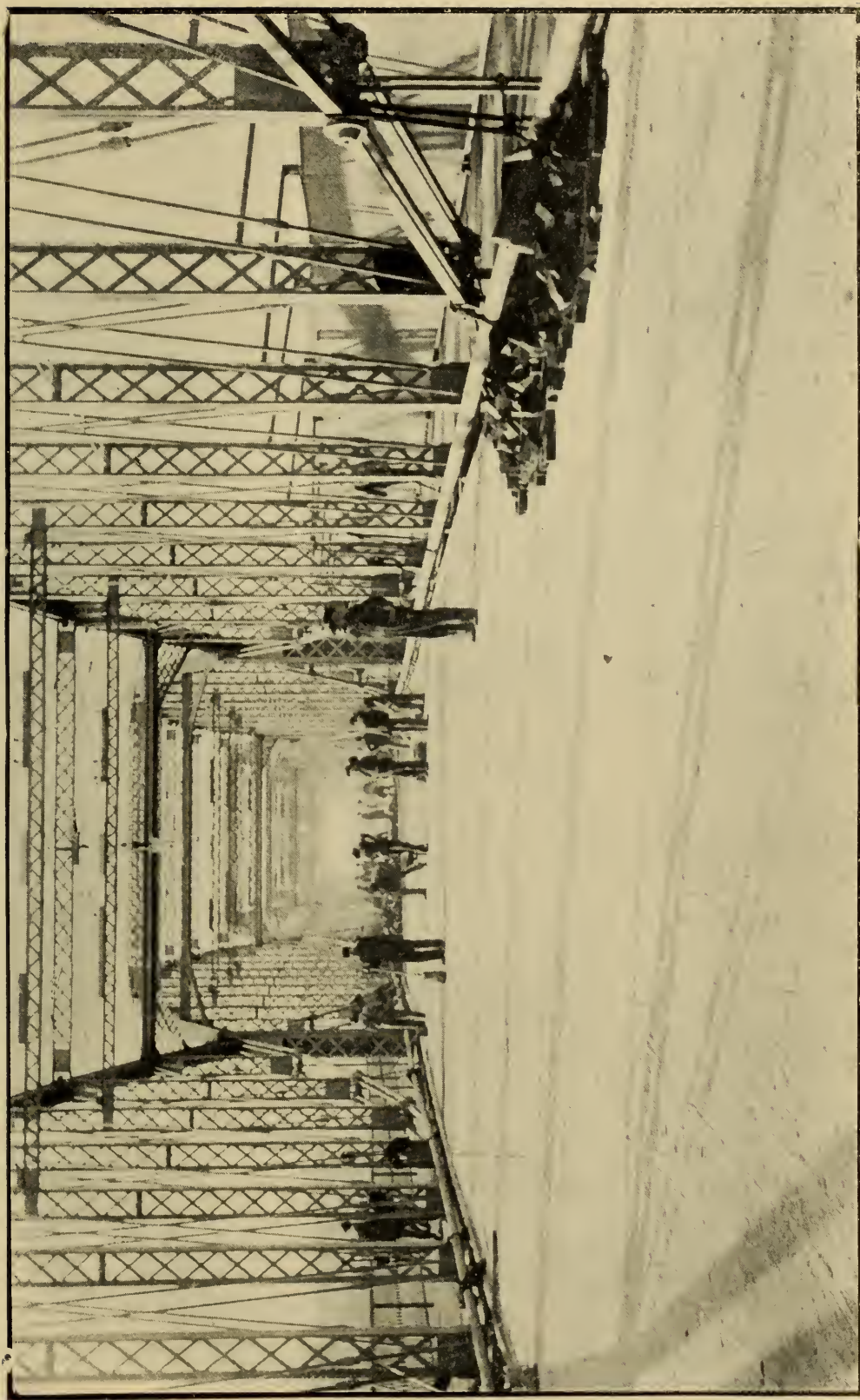
STREETS.	Size and Length.			Material.	Cubic Yards Ledge.	Average Depth.	Manholes.	Begun.	Finished.	Cost.	Length.
	10"	12"	15"								
Southerland and Hildreth.....		277		Portland Pipe	63	9.4	2	July 6.....	July 19.....	\$1,080 12	277
Staples.....		282		"	33	6.4	1	Aug. 15....	Aug. 20....	693 54	282
Stevens, W. Forrest & Clifford, 533' of 18" pipe.....				"			8	Sept. 12....	Nov. 9.....	11,151 34	1,373
Stromquist Avenue, 290' 36" iron pipe, 1122' 36" brick.....			260	Iron Pipe, cement and brick.....							
Westford.....		221	49	Portland Pipe	67	7.9	6	Sept. 8.....	Unfinished	26,606 78	1,412
West Sixth.....		206		"	56	9.6	2	April 14....	May 12.....	1,486 43	270
Woodcock.....			207	"			2	May 3.....	May 18....	1,257 67	413
White, 552' 24" Iron Pipe.....	281					8.7	1	July 26.....	Aug. 8.....	957 15	281
				Iron Pipe.....	341	3.3	1	Sept. 30, 1903.....	Unfinished	6,011 85	595
Lineal feet of Sewers laid in 1904	.	.	.	.	.	17,623	or	3.34	Miles		
Sewers laid previously,	.	.	.	.	.			90.13	"		
Deduct 944 feet of Sewers relaid,	.	.	.	.	.			93.47	"		
	.	.	.	.	.			.18	"		
Length of Sewers January 1st, 1905,	.	.	.	.	.			93.29	"		

BRIDGES.

STREETS.	LOCATION.	MATERIAL.	MAINTAINED BY
Aiken.....	Merrimack River.....	Iron.....	City.....
Aiken.....	Northern Canal.....	Iron.....	City.....
Bridge.....	Merrimack River.....	Iron.....	City.....
Bridge.....	Eastern Canal.....	Wood.....	Props. Locks and Canals.....
Broadway.....	Pawtucket Canal.....	Wood.....	Props. Locks and Canals.....
Broadway.....	Western Canal.....	Stone.....	City.....
Cabot.....	Northern Canal.....	Wood.....	City.....
Cambridge.....	River Meadow Brook.....	Wood.....	City.....
Central.....	Pawtucket Canal.....	Wood.....	Props. Locks and Canals.....
Chelmsford.....	B. & M. R. R.....	Iron.....	Boston & Maine Railroad.....
Church.....	Concord River.....	Stone.....	City.....
Congress.....	River Meadow Brook.....	Wood.....	City.....
Dutton.....	Western Canal.....	Wood.....	City.....
East Merrimack.....	Eastern Canal.....	Wood.....	Props. Locks and Canals.....
East Merrimack.....	Concord River.....	Iron and Stone.....	City.....
Gorham.....	River Meadow Brook.....	Wood.....	City.....
Hale.....	B. & M. R. R.....	Iron.....	Boston & Maine Railroad.....
Hall.....	Western Canal.....	Wood.....	Lawrence Mfg. Co. and Suffolk Mills.....
Howard.....	River Meadow Brook.....	Stone.....	City.....
Jefferson.....	Western Canal.....	Iron.....	City.....
Lawrence.....	Concord River.....	Wood.....	City.....

BRIDGES — CONTINUED.

STREETS.	LOCATION.	MATERIAL.	MAINTAINED BY
Lawrence.....	Wamesit Canal.....	Wood.....	Wamesit Power Co.....
Lincoln.....	River Meadow Brook.....	Wood.....	City.....
Lundberg.....	B. & M. R. R.....	Iron.....	City.....
Market.....	Merrimack Canal.....	Wood.....	City.....
Market.....	Western Canal.....	Wood.....	City.....
Merrimack.....	Merrimack Canal.....	Stone, Brick.....	Props. Locks and Canals.....
Merrimack.....	Western Canal.....	Wood.....	Props. Locks and Canals.....
Moody.....	Western Canal.....	Wood.....	City.....
Moody.....	Merrimack River.....	Iron.....	City.....
Newhall.....	River Meadow Brook.....	Iron.....	City.....
Pawtucket.....	Northern Canal.....	Wood.....	Props. Locks and Canals.....
Pawtucket.....	Pawtucket Canal.....	Wood.....	Props. Locks and Canals.....
Plain.....	River Meadow Brook.....	Wood.....	City.....
Rogers.....	Concord River.....	Stone.....	City.....
School.....	Merrimack River.....	Iron.....	City.....
School.....	Northern Canal.....	Brick, Stone.....	Props. Locks and Canals.....
School.....	Pawtucket Canal.....	Wood.....	Props. Locks and Canals.....
Suffolk.....	Northern Canal.....	Wood.....	Props. Locks and Canals.....
Thorndike.....	Pawtucket Canal.....	Wood.....	Props. Locks and Canals.....
Wilder.....	B. & M. R. R.....	Wood and Iron.....	B. & M. R. R. and City.....
Worthen.....	Western Canal.....	Wood.....	City.....



AIKEN STREET BRIDGE, BLOCK PAVING FINISHED ON EAST END

HIGHWAYS AND STREETS.

SUPERINTENDENT OF STREETS.

69

	1900	1901	1902	1903	1904
Macadam, New.....	\$ 21,513 05	\$ 18,373 05	\$ 23,672 24	\$ 30,434 78	\$ 22,952 66
Streets Graded.....	14,556 96	9,078 75	12,353 13	10,965 06	15,619 92
Curbings, New.....	4,203 14	8,088 01	8,335 25	7,327 83	7,397 69
“ Relaid.....	684 94	645 17	2,412 73	2,482 92	1,116 32
Gutters, New.....	1,795 91	927 78	2,627 33	1,593 78	1,736 87
“ Relaid.....	210 12	187 11	207 61	12 50	509 85
Cinder Sidewalks.....	2,936 33	3,015 86	5,396 11	8,613 30	2,979 66
Paving, New.....	6,948 67	4,474 39	426 00	273 26	921 12
“ Relaid.....	753 18	1,510 23	2,062 28	2,752 34	3,006 47
Crosswalks, New.....	1,053 39	445 80	2,051 26	2,060 26	1,203 89
“ Relaid.....	353 08	405 26	744 11	770 29	364 44
“ Repaired.....	286 10	208 91	117 36	216 36	314 12
Cleaning Streets.....	21,164 75	28,473 75	31,379 73	38,256 59	38,856 31
Removing Snow.....	4,890 22	8,436 77	17,836 03	9,186 63	44,878 86
Trimming Trees.....	1,273 28	646 55	558 20	108 55	*
Repairing Streets.....	2,829 46	1,827 97	1,026 01	993 07	2,875 92
Expenditures.....	154,173 79	134,239 89	161,485 21	167,628 79	216,482 71
Valuation of Personal Property.....	61,943 53	48,801 07	63,309 17	78,250 91	75,632 09
Relaying Brick Sidewalks.....	151 33	273 11	643 30	1,510 99	670 68
Repairing Bridges.....	5,736 13	9,109 85	2,077 42	5,498 50	12,901 46
New Walls.....	1,196 85	253 97	186 00	540 89	1,757 72

* Care of Trees transferred to Park Commission.

HIGHWAYS AND STREETS—CONTINUED.

	1900	1901	1902	1903	1904
Macadam, New, Square Yards.....	\$ 62,920	\$ 36,476	\$ 55,905	\$ 50,275	\$ 54,537
Streets Graded, Lineal Feet.....	43,712	53,400	47,965	23,347	36,315
Curbing, New, Lineal Feet.....	9,767	11,052	13,151	12,980	12,128
Curbing, Relaid, Lineal Feet.....	6,987	6,965	16,696	17,735	8,266
Gutters, New, Lineal Feet.....	13,520	10,682	24,791	15,810	13,638
Gutters, Relaid, Lineal Feet.....	1,465	3,273	1,395	228	5,106
Cinder Sidewalks, Lineal Feet.....	51,478	45,346	92,262	101,480	42,190
Paving, New, Square Yards.....	12,867	1,843	416	555	444
Paving, Relaid, Square Yards.....	3,905	5,500	6,827	6,600	8,423
Crosswalks, New, Lineal Feet.....	509	540	2,215	2,199	1,328
Crosswalks, Relaid, Lineal Feet.....	702	2,098	2,193	2,583	1,451
Streets Accepted, Miles.....	.78	.38	1.04	1.43	.62
Relaying Brick Sidewalks, Square Yards.....	481	573	3,216	3,820	2,729
New Walls, Lineal Feet.....	1,580	210	412	282	936
New Catch Basins.....	274	96	102	27	53

ANNUAL REPORT
OF THE
CHIEF ENGINEER
OF THE
FIRE DEPARTMENT
OF THE
CITY OF LOWELL
FOR THE YEAR 1904.



LOWELL, MASS.
F. A. M. TOBIN'S PRINTERY.
1905.

REPORT.

CHIEF'S OFFICE, PALMER ST. ENGINE HOUSE,

LOWELL, January 1, 1905.

To the City Council of the City of Lowell :

GENTLEMEN :— In accordance with the requirements governing the Fire Department, it becomes my duty, as Chief Engineer, to present to you the annual report of the Fire Department of the City of Lowell for the year ending December 31, 1904.

The report will be found to contain statements in detail, embracing the amount of expenditures, a register of the department, with age, residence and occupation of each member, a record of all fires and alarms which have occurred during the year, and the cause thereof, with the names of the owners or occupants, the loss and insurance, as nearly as could be ascertained, and such information as is thought proper for your consideration.

The following statement will show the receipts and expenditures :

RECEIPTS.

Appropriations - - - - - \$134,976 83

EXPENDITURES.

Pay Rolls - - - - -	\$109,854 23	
Water Works - - - - -	420 05	
Hose, Pipes and repairs of same	1,721 75	
Telephone - - - - -	254 81	
Express and Freight - -	39 55	
Horses and use of same -	2,384 57	
Shoeing - - - - -	1,601 20	
Veterinary and Medicines -	332 43	
Hay, Straw and Grain - -	7,170 17	
Harness and repairs of same	679 65	
Furniture, etc. - - - -	295 97	
Coal and Wood - - - -	2,908 21	
Gas - - - - -	1,525 00	
Printing - - - - -	203 50	
Repairs on Apparatus and Houses	2,539 66	
Laundry - - - - -	119 12	
Cloth, Buttons and Badges -	191 53	
Fire Alarm, repairs, etc. - -	283 29	
Oil, Sponges, Brooms, etc. -	1,779 39	
Total Expenditures for the year —————	\$134,304 08	
Bal. returned to gen'l treas'y fund		\$672 75

SALARIES OF MEMBERS OF FIRE DEPARTMENT.

Chief Engineer - - - -	\$2,000 00 per annum
First Assistant Engineer -	1,500 00 “ “
Other Assistant Engineers - -	400 00 “ “
Foreman of the companies (call)	300 00 “ “
Call Men - - - -	200 00 “ “
Permanent Men - - - -	2 75 “ day
Foreman of Companies (permanent)	3 00 “ “
Engineers of Steamers (permanent)	3 00 “ “

This department is divided into two classes, Permanent and Call. The Permanent force consists of

Chief Engineer,	25 Drivers,
1 1st Assistant Engineer,	15 Laddermen,
1 Fire Alarm Operator,	6 Engineers of Steamers,
28 Hosemen,	1 Driver for the Chief En-
6 Patrolmen,	gineer.

A total of 83, of which 15 are Captains and 15 Lieutenants.

The Call force consists of

3 Assistant Engineers,	65 Hosemen,
25 Laddermen.	

A total of 93, of which there are 1 Captain and 1 Lieutenant.

This makes a total of 176, divided into companies as follows :

- 6 Steam Fire Engines, with Hose Wagons.
- 5 Horse Hose Companies.
- 4 Hook and Ladder Companies, 2 with Chemical Engines attached.
- 1 Protective Company.

The changes in the force during the year have been as follows :

Appointed on Permanent force	-	-	-	-	-	-	-	-	4
Appointed on Call force	-	-	-	-	-	-	-	-	8
Suspended	-	-	-	-	-	-	-	-	2
Discharged	-	-	-	-	-	-	-	-	3
Transferred	-	-	-	-	-	-	-	-	1
Deaths	-	-	-	-	-	-	-	-	3

The apparatus is kept in the best possible condition and consists at present of six Engines, eleven two-horse Hose Wagons, one Babcock Aerial Truck and three Trucks of other patterns, two Chemical Engines, one Hale Water Tower, one Patrol Wagon and Sleigh, fully equipped, six Hose Pungs, eight Fuel Wagons, two Wagons and one Sleigh for use on fire alarm, one Wagon and Sleigh for Chief's use, one Wagon for Assistant Chief's use, and nineteen Fire Extinguishers. In reserve there are three two-horse Hose Reels.

Engine 3, after fifteen years of service, was sent to Manchester to undergo a general overhauling at an expense of \$1,900. She has not been returned yet. This year Engines 4 and 6 will have to be sent off for repairs.

FIRE ALARM.

This branch of service has been maintained in most excellent condition by the operator, Mr. H. C. Fernald.

There have been two hundred and seventeen alarms given from signal boxes, and the No School signal has been given fifteen times the past year.

Connected with the circuit there is one ten-circuit non-interfering repeater, one ten-circuit cutout and testing switch-board, one slate protector, twelve galvanometers, ten bell-strikers, fifteen large gongs for engine houses, eight small gongs, seventeen indicators, sixteen electro-magnets and connections for opening stall doors, twenty-three electric light current protectors, one hundred and eighteen public and eight private signal boxes, one hundred miles of wire, the whole supplied with a storage battery of four hundred cups.

There is also one large gong and indicator combined in the Police Station, one large gong at Pumping Station, Merrimack Square, Tower's Corner, and near the Northern Depot.

An additional appropriation will be needed this year to extend the placing of wires underground.

TELEPHONE.

There are connected with this system twenty stations, consisting of transmitter, telephone bell and battery; there are also twenty-two tap bells for the rooms of the Engine Houses, and about forty miles of wire owned by the city, under the care of the Fire Alarm Operator, except the telephones and transmitters, which are leased from the Telephone Company. The ringing line is supplied by a storage battery of one hundred and ten cups.

HORSES AND HARNESSES.

There are fifty-seven horses in the service of the Department. Nine new ones have been purchased the past year.

to take the place of six that had passed their usefulness for this Department. There are twelve sets of double, ten sets of three-horse hitch harnesses, and four single swinging harnesses of the Berry and Hale patents.

PROTECTIVE DEPARTMENT.

This department is maintained by the city and consists of six permanent men. They responded to two hundred and seventy-one alarms; in service three hundred and nineteen and one-half hours; spread seven hundred and sixty-six covers, and used one hundred and thirty-seven extinguishers; raised two hundred and forty-five feet of ladders; laid nine hundred and fifty feet of hose.

Chemical Engine C, attached to Truck 2, has used fifty-eight tanks. Chemical B, attached to Truck 3, has used seventy-seven tanks.

HYDRANTS.

Thirteen new hydrants have been added and one changed the past year, as follows: The one changed was at the entrance to the Massachusetts Cotton Mills. The new ones added are one at the entrance to the Massachusetts Cotton Mills, two on Amory street, one on the east and one on the west side of John street, one on Butman road, one on Dutton street north of the entrance to the Lowell Machine Shop, one on French opposite Kirk street, one on Hurd near George street; one on Jackson street west of entrance to Lowell Machine Shop, two on Merrimack square, one opposite the Prescott Mills, the other opposite Runels block, one on Plymouth street opposite No. 25, one on Warren street opposite

Middlesex Company's office, the other one on Worthen street opposite the Merrimack print works.

HOSE.

The Department will need two thousand feet of new hose the present year.

FIRES AND LOSSES.

The past year beat all records of this Department in the number of fires and alarms received and the amount of loss. The whole number of alarms were seven hundred and seven. Two hundred and seventeen were given from signal boxes (three second and two general alarms included), two hundred and seventy-nine stills, and reported one hundred and fifty-six telephones, twenty-seven automatic and twenty-eight exposures. The No School signal was given fifteen times. The largest number of alarms were given in November — sixty-six; January followed with sixty-five; April, sixty-four; and July, sixty-one. There were three hundred and twenty fires extinguished by chemicals alone, and one hundred and fifty-three where water was used; the others were extinguished by other means or had been put out before the arrival of the Department.

The whole amount of loss, except the reported ones and Huntington Hall, was \$410,564.15; insurance, \$1,389,074; paid, \$320,099.88; loss above insurance, \$90,464.27; valuation, \$2,129,345.36; the reported loss was \$6,761.69; insurance, \$11,027,262.35; paid, \$6,761.69; valuation, \$13,285,175.

There have been eleven alarms for fires out of the city, to which some part of the Department has responded the

past year, for which no insurances are kept—Dracut, five; Tewksbury, four; Chelmsford, one; Tyngsboro, one.

January 9 an alarm from box 21 at 1.29 a. m., followed by a second, called a part of the Department to a serious fire in a four-story brick fire trap known as the old Odd Fellows' building, owned by F. N. Weir. The fire started from some unknown cause in the rear of the third story in a small room used as a kitchen and closets for uniforms. It spread rapidly through the partitions to the large concealed space between the monitor roof and ceilings. When the Department arrived the flames were issuing from the rear windows in the third and fourth stories, breaking through the roof soon after. Every precaution was taken to prevent the fire spreading across a narrow alley to the old City Hall building on one side, the Urban Hall building in the rear, and the Mechanics Bank building on the other side. By energetic work of the Department the fire was confined to the two upper stories, which were badly gutted. The building was occupied as stores, rooms and two halls. The recall was sent in at 5.12 a. m. The loss was \$21,014.78.

January 11, at 5.33 a. m., a telephone was sent in for the Palmer street chemical for a fire in St. Patrick's church. When the company arrived they found more fire than they could take care of. It was reported that the box (325), near the fire, would not work, so the driver ran back to 125 and sent in an alarm from that box at 5.41. The electrician soon after examined box 325 and found it all right. At 5.50 someone sent in an alarm from box 139. Soon after a general alarm was sent in. A good deal of unjust criticism was given the Department for this fire which was uncalled for,

as the Department never worked harder to suppress a fire than at this one. The fire started from an overheated smoke pipe in the boiler room, the ceiling of this room and the vestry being covered with a steel sheathing nailed to a seven-eighths inch furring, which allowed the fire to run in all directions. When the Department arrived the fire was burning fiercely, and had been burning some time between the floor and sheathing, also had burned a large hole in the church floor. This was soon extinguished, and at this time the fire was evidently all out. In a few minutes sparks began to fall down the partition between the plaster and wall, showing that the fire had got a foothold in the large open space under the roof. At the same time the slates began to fall from the roof, which showed that the fire had been there some time. It was impossible to get water onto the fire, it being confined between the ceiling and roof. Efforts were immediately taken to protect the surrounding property, which consisted of a number of frame buildings, the roofs of which caught fire a number of times. St. Patrick's Home, a five-story brick building, occupied as a home for working girls; the Notre Dame Academy, a large five-story brick building, separated only by iron doors from the church, escaped without getting a wetting. The recall was sent in at 12.52 p. m. A portion of the Department was kept about four hours longer pumping water from the basement. The loss was \$160,765.10.

January 12 an alarm from box 56 at 9.01 p. m., followed in four minutes by a general alarm, called the Department to one of the largest and most disastrous fires in the history of the city. The fire started from some unknown cause in

the Fellows building, a four-story brick block on Middle street, directly opposite the Fire Department Headquarters. The three upper stories and one store occupied by the O'Donnell & Gilbride Company, dealers in ladies' wearing apparel, furniture, carpets, etc. The other three stores were occupied by Welch Bros., plumbers; C. H. May & Co., electricians; and U. S. Tabor, billiard and pool room. Mr. Casey, bookkeeper for Welch Bros., was in his office writing. Mr. Tabor and some men were in the pool room. They heard what sounded like two explosions, one after the other. They ran into the street and saw flames coming out of the second and third story windows. They notified the men in the fire station. A visitor in the station, Mr. W. Kennedy, sent in the alarm. At that time the wind was blowing the flames against the fire station. The heat soon broke out every window on that side of the station. It had got a foothold in the fire alarm rooms in the third story and the window frames in the tower had caught fire. A desperate fight was made to save this building, as the city would have been left without any fire alarm protection. Very soon ten streams of water, handled by as brave a lot of men as any department can produce, were playing on the building. In spite of the intense heat every man stuck to his post until all danger was past to this building. In about twenty minutes the walls of the two upper stories of the Fellows block fell into the street, disabling Assistant Chief Norton and several other men. While this fight was going on the fire had jumped across the narrow alley into the Bascom and Albion blocks. This could have been avoided if shutters had been placed and kept closed on the windows of these blocks, as the architect had

intended. These blocks were four-story brick. The stores in these blocks and the one in the O'Donnell & Gilbride building, corner of Palmer street, were occupied by the O'Donnell & Gilbride Company. The upper stories were occupied by dressmakers, etc. The heat from the Fellows building set fire to the Urban Hall building through the party wall, which was a sham. The supporting timbers of the gallery projected so far into the wall that they and the wooden bricks laid into the wall to nail furring to had ignited and had got a pretty good foothold before being discovered. The O'Donnell & Gilbride building, adjoining the Albion, and the Mechanics Bank building, adjoining the Bascom block, escaped with only a wetting. The A. G. Pollard & Co.'s two blocks and the McCarthy block were damaged by the heat breaking the glass and scorching the paint. The Department deserved and received letters of congratulation from citizens and gentlemen outside of the city, with contributions for their fund from owners of buildings exposed to the fire. The recall was sent in at 4.15 p. m. January 13. The loss was \$161,422.49.

One other fire where the loss was heavy occurred August 2 in an unoccupied house owned by Mrs. J. E. White. The alarm was sent in from box 141 at 1.10 a. m. Lightning running in on the electric light wires was the cause. Loss, \$20,254.

There were only eight other fires where the loss was \$1,000 and over.

March 3, Davis & Sargent's box shop on Middlesex street, occupied by several tenants. Loss, \$4,931.

March 17, a stable on Sargent street, owned by Mrs. Faulkner, occupied by R. Leggett. Loss, \$1,168.10.

July 17, Mrs. Brouillette's dwelling on Middlesex street. Loss, \$3,353.37.

August 23, stables owned by the Moxie Company and Lowell Packing and Provision Company. Loss, \$1,706.59.

September 20, dry house owned by the Waterhead Mill Company. Loss, \$1,738.35.

November 6, Huntington Hall, owned jointly by the city and Boston & Lowell Railroad Company. Loss not yet settled.

November 23, dwelling owned by F. E. Bailey, Canton street. Loss, \$5,010.

December 4, stores on Middlesex street, owned by Miss L. Fisher; several occupants. Loss, \$3,053.60.

Making a total loss of \$20,963.01. Insurance, \$74,050.

There have been thirteen incendiary and supposed incendiary fires the past year, which were investigated by M. F. Casey, the fire marshal's aid. Not enough evidence could be ascertained to make an arrest. There were a number of other fires recorded as unknown which looked suspicious and were investigated by Mr. Casey.

There have been six false alarms. April 6 a boy named Jimmy Armstrong was caught. He said another boy told him to pull the box, as there was a fire up near the school-house. Two boys named Justin and Newcomb were caught after a long chase by a policeman. They were fined \$10.

For further particulars in regard to fires and losses I refer you to the tables annexed to this report.

The following will show the causes of different alarms as near as could be ascertained:

Awnings - - - - -	3	Locomotive spark - - -	1
Alarms for same fire -	29	Lime slacking - - -	1
Brush - - - - -	11	Oil lamps - - - - -	17
Boiler smoking - - -	1	Oil stoves - - - - -	6
Baking cores - - - -	1	Overheated furnaces -	2
Cigar stubs - - - -	7	Overheated smoke pipes	2
Chimneys - - - - -	82	Overheated thermostats	10
Chemicals - - - - -	1	Overheated ovens - -	2
Combustion - - - - -	10	Overheated chimneys -	4
Careless use of matches	12	Overheated fireplace -	1
Children and matches -	18	Out of the city - - -	11
Clothes in closet - - -	5	Overheated steam pipe -	1
Careless smoking - - -	4	Oil lantern set bridge -	1
Candles set clothes - -	1	Plumber's furnace - -	1
Defective chimneys - -	18	Pickers - - - - -	2
Drying plaster - - - -	3	Repairing wires - - -	2
Dump - - - - -	43	Rubbish - - - - -	16
Defective motor - - - -	1	Rekindled - - - - -	9
Electric wires - - - -	5	Rats' nest in partition -	5
Exposures - - - - -	28	Supposed incendiary -	8
False alarms - - - - -	6	Supposed valve leaking	15
Fat on stove - - - - -	5	Steam escaping - - -	5
Firecrackers - - - - -	5	Spark set roof - - -	24
Gasolene explosions -	5	Spark set lumber - - -	2
Gas stoves - - - - -	6	Spark set shavings - -	1
Gas jet and curtains -	9	Stove smoking - - - -	7
Grass - - - - -	45	Second alarms - - - -	2
General alarms - - - -	3	Spark from forge - - -	1
Gas explosions - - - -	1	Tar kettles - - - - -	4
Gas leak - - - - -	1	Thawing water pipes -	8
Gasolene set autos - -	3	Trolley wire set car - -	1
Hot stove set clothes -	12	Unknown - - - - -	22
Hot ashes - - - - -	8	Wood spittoon - - - -	1
Incendiary - - - - -	5	Water leak - - - - -	1
Lightning - - - - -	3	No school - - - - -	15

Of the buildings in which these fires occurred three hundred and fifty-one were of wood and eighty-one were of brick and stone.

WOODEN BUILDINGS.

BLOCKS, COTTAGES, ETC.			MILLS.	CHURCHES.	SCHOOL- HOUSES.	SHEDS.	STABLES.
1	Story,	1,924	1 Story, 27	25	28	2,266	2,273
1	1-2	2,269	2 " 25				
2	"	3,881	3 " 49				
2	1-2	2,132	4 " 49				
3	"	965	5 " 5				
4	"	143					
5	"	21					
113,35			155	25	28	2,266	2,273

Total number of wooden buildings	-	-	-	-	-	-	16,082
An increase during the past year of	-	-	-	-	-	-	188

BRICK BUILDINGS.

BLOCKS, ETC.			MILLS.			CHURCHES.	SCHOOL- HOUSES.
1	Story,	62	1	Story,	21	21	22
2	"	124	2	"	64		
2 1-2	"	68	3	"	73		
3	"	213	4	"	49		
4	"	185	5	"	23		
5	"	34	6	"	26		
6	"	6	6 1-2	"	7		
692			263			21	22

Total number of brick buildings	-	-	-	-	-	-	-	998
An increase during the past year of	-	-	-	-	-	-	-	3

STONE BUILDINGS.

Churches, 6; 1-story, 2; 2-story, 26; 3-story, 8; 4-story, 6; 3 iron.

Total number of iron buildings	- - - - -	3
Total number of stone buildings	- - - - -	48
Total number of buildings of all descriptions	- -	17,131
An increase during the past year of	- - - - -	191

Some of these blocks have from four to twenty tenements.

The following table shows the number of alarms of fire each month :

January, 65; February, 41; March, 23; April, 64; May, 43; June, 43; July, 61; August, 37; September, 33; October, 36; November, 66; December, 56. Total exposures, 28; reported, 111. Total, 707.

SERVICE OF THE DEPARTMENT FOR 1904.

	Number of alarms attended.	Number of hours worked.	Feet of hose laid.	Hours of hydrants in use.	Number of extinguishers used.	Number of chemical tanks used.	Feet of ladders raised.	Hours engines worked.	Number of covers used.
Engine	73	62 3-4	7,700	21 1-2	17			11 3-4	
"	97	81	12,800	27 1-2	23			10 1-4	
"	177	211 1-4	11,500	72 1-2	10			12 1-2	
"	137	119	5,650	25 1-2	49			13	
"	66	75	4,650	17 1-2	28		206	6	
"	122	159 3-4	8,950	46 3-4	19			20	
Hose	129	118 1-2	8,450	31 1-2	28				
"	147	164 1-4	20,150	75 3-4	47				
"	52	51	6,750	13 1-2	23				
"	115	146 3-4	15,500	54 3-4	24				
"	59	43 3-4	3,650	11	14				
Truck	51	59 1-4	250	5			865		
"	125	127 1-2				58	2,364		
"	185	246				77	2,530		
"	98	131 1-2					1,513		
Protective	271	319 1-2	950		137		245		766
Total		2,116 3-4	106,950	403	419	135	7,723	73 1-2	766

There have been three deaths in the Department the past year. Lieut. P. S. Webster, a permanent member of Hose 9. He joined the Department in 1884 and died January 29, 1904. Capt. A. H. Gibson, a permanent member of Truck No. 1. He was injured in a collision between the truck and an electric car February 12 and died February 14 after an operation had been performed. He joined the Department in February, 1884. Henry W. Burton, a call assistant engineer, died November 29 after a short but painful illness. He joined the Department in 1864.

The following is a list of the injured : Capt. E. W. Bartlett, Engine 5 ; Capt. D. H. Crowley, Hose 8 ; Capt. D. J. Hurley, Engine 6 ; F. W. Simons and W. P. Maker, Truck 3 ; J. M. G. Burns, Thomas Byron and W. T. Dolan, Engine 4 ; H. S. Gardner, Truck 2 ; Patrick Curtin, Engine 1 ; T. F. Maguire and E. W. Fletcher, Engine 6 ; A. S. Maynard, Engine 2 ; B. F. Freeman, Engine 3 ; T. F. Lynch and T. F. Welch, Hose 8 ; James Sullivan, Hose 7 ; and Assistant Chief James F. Norton.

There were five deaths by burning the past year. Mrs. Celia Green, died February 17, set her clothes on fire by stepping on a match. Mrs. Rose A. Churchill, clothes caught fire from burning leaves April 6, died April 8. Mrs. Marion Ainsworth, clothes caught fire from an oil stove Sept. 22, died September 23. Alice Sullivan, four years old, clothes caught fire from burning leaves. Mrs. Ellen Leary, seventy-five years old, set her clothes on fire by an oil lamp falling on floor December 24.

LOWELL FIREMEN'S FUND ASSOCIATION.

This benevolent association was organized December 17, 1885, for the purpose of furnishing relief to such of its

members as should receive injuries while in the discharge of their duties. The income is derived from an annual assessment upon each member and by donations from citizens and others, and in behalf of the members of the association I would return thanks to all those who have aided us in the past.

The following donations have been received the past year :

Lowell Gas Co.	-	-	-	-	-	-	\$	100	00
O'Donnell & Gilbride Co.	-	-	-	-	-	-		100	00
J. C. Ayer Co.	-	-	-	-	-	-		100	00
G. W. Pearson	-	-	-	-	-	-		75	00
A. G. Pollard Co.	-	-	-	-	-	-		100	00
Arthur Staples	-	-	-	-	-	-		50	00
Mechanics Savings Bank	-	-	-	-	-	-		100	00
Fred N. Weir	-	-	-	-	-	-		50	00
C. H. Bascom	-	-	-	-	-	-		50	00
Davis & Sargent	-	-	-	-	-	-		50	00
Fay Bros. & Hosford	-	-	-	-	-	-		210	40
Taylor & Barker	-	-	-	-	-	-		25	00
Frederick Lawton	-	-	-	-	-	-		25	00
Boutwell Bros.	-	-	-	-	-	-		50	00
F. E. Bailey	-	-	-	-	-	-		25	00
Total	-	-	-	-	-	-		\$1,110	40

The following statement shows the amount standing to the credit of the association December 31, 1903 :

Balance on hand Dec. 31, 1903	\$27,471	54
Cash received to Dec. 31, 1904	2,460	33
Total	\$29,931	87
Paid out to Dec. 31, 1904	3,387	27
On hand Dec. 31, 1904	\$26,544	60

In conclusion I wish to thank my Board of Engineers, officers and members of the Department for their promptness and efficiency in the performance of their duties. To the Mayor and City Council, Clerk, Auditor, Treasurer, Superintendents of the different departments, and all others who have in any way assisted me in the discharge of my duties, I extend my sincere thanks.

Respectfully submitted,

EDWARD S. HOSMER,

Chief of Fire Department.

FIRE DEPARTMENT.

JANUARY 1, 1905.

CHIEF ENGINEER.

EDWARD S. HOSMER } Office, Palmer St. Engine House.
 } Residence, 202 Westford Street.

FIRST ASSISTANT ENGINEER.

James F. Norton - - - - Residence, 22 Ames Street.

ASSISTANT ENGINEERS.

George F. Salmon - Residence, 95 Mt. Washington Street.
Edward Meloy - - - Residence, 30 Fort Hill Avenue.
Charles Stackpole - - - Residence, 105 Liberty Street.

CHIEF'S DRIVER.

H. B. Sanders - Residence, Palmer Street Engine House.

TELEGRAPH OPERATOR.

Henry C. Fernald - Residence, Palmer Street Engine House.

COMMITTEE ON FIRE DEPARTMENT, 1904.

Aldermen Taylor and Fairweather, Councilmen Blake,
J. J. Hayes and Connors.

ENGINE COMPANY No. 1.

TWELVE MEMBERS.

HOUSE ON GORHAM STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
15...	Captain	C. D. Foley.....	50	Permanent ...	June, 1879....	Engine House
11...	Lieutenant ..	T. W. Collins	48	Permanent	April, 1884 ...	Engine House
1...	Clerk	George W. Lovett ..	54	Driver, Wagon.	Dec., 1875....	Engine House
119...	Engineer ..	J. W. Jantzen	51	Permanent ...	Feb., 1884....	Engine House
12...	Driver	J. J. Lowney.....	36	Driver, Engine.	July, 1892....	Engine House
17...	Ass't Engineer.	T. McNamara	60	Machinist . . .	April, 1884....	740 Lawrence St.
19...	Hoseman	J. A. Shea	29	Plasterer	Dec., 1897 ...	28 Butler Ave.
16...	Hoseman ..	T. Caruthers	59	Stamper.....	April, 1884....	Engine House
14...	Hoseman	P. Curtin	52	Moulder	May, 1874 ...	43 Abbott St.
13...	Hoseman	J. E. Burns	35	Expert.....	Sept., 1897....	14 Carter St.
18...	Hoseman	Robert Oatley.....	43	Laborer	Dec., 1897....	82 Blossom St.
10...	Hoseman	Wm. H. Kirkpatrick	35	Machinist	Jan., 1897....	Engine House
...	Substitute	J. H. Gray.....	39	Lather	Feb., 1899....	23 Ellsworth St.
...	Substitute	M. J. O'Connor ..	40	Clerk	Jan., 1900 ...	900 Gorham St.

ENGINE COMPANY No. 2.

HOUSE ON BRANCH STREET.

TWELVE MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
2...	Captain	H. Boynton	53	Permanent	April, 1869	Engine House
21...	Lieutenant	F. B. Akers	46	Permanent	May, 1878	Engine House
20...	Clerk	W. H. Oke	39	Driver, Wagon	Dec., 1893	Engine House
29...	Engineer	H. R. Morrison	45	Permanent	July, 1882	Engine House
90...	Driver	F. Boynton	43	Driver, Engine	Dec., 1882	Engine House
28...	Hoseman	A. Jamieson	44	Painter	Dec., 1894	112 Shaw St.
22...	Hoseman	Gilman S. Alcott	22	Compositor	June, 1902	Engine House
23...	Ass't Engineer	A. F. Prescott	27	Machinist	June, 1899	Pine St.
27..	Hoseman	A. S. Maynard	51	Carpenter	Nov., 1884	Marshall St.
25...	Hoseman	C. A. Bugbee	43	Painter	Dec., 1894	62 Grove St.
24...	Hoseman	F. H. Harris	28	Tinsmith	Aug., 1899	Engine House
26...	Hoseman	C. E. Alway	40	Carpenter	Feb., 1889	3 East Pine St.
..	Substitute	W. C. Conrad	34	Blacksmith	Dec., 1904	14 Lawson St.
...	Substitute	C. F. Stackpole	20	Teamster	Dec., 1904	105 Liberty St.

ENGINE COMPANY No. 3.

TWELVE MEMBERS.

HOUSE ON PALMER STREET.

FIRE DEPARTMENT.

27

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
30...	Captain	F. Hoyt	56	Permanent	Aug., 1873	Engine House
31...	Lieutenant	O. A. Knapp	40	Permanent	July, 1889	Engine House
3...	Driver	F. E. Turner	41	Driver, Wagon	July, 1892	Engine House
33...	Engineer	M. I. Collins	49	Permanent	April, 1888	Engine House
133...	Clerk	B. C. Reed	51	Driver, Engine	Aug., 1885	Engine House
37...	Hoseman	F. E. Roark	55	Lighter	July, 1875	Fifth St.
38...	Hoseman	G. T. Halstead	47	Permanent	Nov., 1883	Engine House
35...	Hoseman	B. F. Freeman	60	Permanent	July, 1892	Engine House
32...	Hoseman	J. J. Rinehart	33	Clerk	Dec., 1902	15 South St.
36...	Ass't Engineer	A. E. Dearth	44	Machinist	June, 1891	12 Broadway
34...	Hoseman	A. Dore	28	Carpenter	Feb., 1898	8 Oak St.
39...	Hoseman	F. A. Farrell	36	Plumber	April, 1898	Market St.
...	Substitute	N. L. Page	23	Machinist	June, 1902	Engine House
...	Substitute	J. A. Lee	22	Fruit Dealer	Jan., 1905	2 Phillips St.

ENGINE COMPANY No. 4.

HOUSE ON HIGH STREET.

TWELVE MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
40...	Captain	J. E. Burns	44	Permanent	Feb., 1882....	Engine House
42...	Lieutenant	J. E. Sullivan	52	Permanent	May, 1883....	Engine House
4...	Clerk	W. King	62	Driver, Wagon.	Nov., 1863...	Engine House
41 ..	Driver	J. J. Harrington	54	Driver, Engine.	Nov., 1869....	Engine House
134...	Engineer	J. D. Ismond	37	Engineer	Mar., 1894....	Engine House
44...	Hoseman	M. Connors..	54	Plasterer	Mar., 1883 ..	Pleasant St.
43...	Hoseman	W. T. Dolan.	33	Plumber	Nov., 1894....	Engine House
46...	Hoseman	J. H. Tracy	38	Clerk	Sept., 1897....	Fayette St.
48...	Ass't Engineer .	M. E. Eagan.	41	Finisher.	Dec., 1898....	Pleasant St.
49...	Hoseman	Thomas Bryan... ..	33	Leather Worker	July, 1899....	Concord St.
47...	Hoseman ...	J. M. G. Burns	32	Clerk	July, 1895....	Pleasant St.
45...	Hoseman	Patrick Mooney.....	28	Machinist	June, 1902....	61 Pleasant St.
...	Substitute	Patrick Finnerty....	31	Moulder	July, 1903....	58 Church St.
...	Substitute ...	W. J. Green.....	24	Leather Worker	Dec., 1904 ..	35 Bartlett St.

ENGINE COMPANY No. 5.

TWELVE MEMBERS.

HOUSE, MAMMOTH ROAD, PAWTUCKETVILLE.

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
152...	Captain	E. W. Bartlett	57	Permanent ...	May, 1883....	Engine House
5...	Clerk	G. F. Flint	43	Driver, Wagon.	Aug., 1892...	Engine House
51...	Engineer	C. L. Brown	50	Engineer	Jan., 1893....	Engine House
53...	Ass't Engineer.	J. P. Fowler	56	Carpenter	May, 1883....	Mammoth Road
55...	Hoseman	E. F. Farrell	29	Plumber	Dec., 1898....	Sixth Ave.
50...	Driver.....	S. S. Page	56	Driver, Engine.	May, 1888....	Engine House
58...	Hoseman	J. J. Frazier	48	Moulder.....	June, 1892....	Starbird St.
54...	Hoseman	J. J. McManmon ...	33	Machinist	Jan., 1893....	Second Ave.
59...	Hoseman	A. H. Vinning . .	59	Carpenter	Mar., 1893....	Eighth Ave.
57...	Hoseman	R. W. Broadbent....	37	Teamster	Mar., 1893 ...	Liberty St.
...	Hoseman	C. A. Campbell	30	Teamster	Oct., 1899....	Mammoth Road
...	Hoseman	W. J. Tighe	30	Leather Worker	Nov., 1900....	Second Ave.
...	Substitute	J. C. O'Neil	32*	.....	Dec., 1904....	20 Sixth Ave.
...	Substitute	R. J. Hayes .....	..	Teamster	Jan., 1905....	242 Mammoth Rd.

ENGINE COMPANY No. 6.

TWELVE MEMBERS.

HOUSE ON FLETCHER STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
135...	Captain	D. J. Hurley	53	Permanent	May, 1879....	Engine House
6...	Clerk	J. A. Fletcher	48	Driver, Wagon ..	May, 1880....	Engine House
61...	Hoseman	T. H. Rogers	53	Permanent	Dec., 1888....	Engine House
64...	Hoseman ..	E. F. Saunders	39	Baker	Feb., 1890....	Mt. Washing'tn St.
65...	Hoseman	J. J. Murray	53	Cabinet Maker ..	July, 1885....	Bowers St.
60...	Driver	S. R. Pendexter	52	Driver, Engine ..	June, 1892....	Engine House
62...	Engineer	F. G. Collins	46	Permanent	Dec., 1889....	Engine House
67...	Hoseman	E. A. Walsh	33	Plumber	June, 1895....	Engine House
69...	Ass't Engineer.	E. Perham ..	44	Box Maker ...	July, 1892....	Common St.
66...	Hoseman	R. E. Burns	39	Cabinet Maker ..	Dec., 1888 ...	Nichols St.
79	Hoseman	T. F. Maguire	38	Clerk	July, 1892....	Butterfield St.
63...	Hoseman	T. F. Saunders ...	33	Horse Shoer.....	Sept., 1895....	Butterfield St.
...	Substitute	J. J. Saunders	32	Plumber	Jan., 1899....	Tremont St.
...	Substitute	J. J. McCarthy	35	Plasterer	Jan., 1905....	216 Mt. Hope St.

HOSE COMPANY No. 7.

NINE MEMBERS.

HOUSE ON CENTRAL STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
72...	Captain	E. Cunningham	57	Steam Fitter...	Aug., 1866....	20 Ames St.
70...	Lieutenant ...	E. O'Connell	47	Permanent ...	Aug., 1878....	Hose House
7...	Clerk	J. Sullivan	38	Driver, Wagon.	July, 1892....	Hose House
73...	Hoseman	P. Emerson	46	Carpenter	Feb., 1883....	Lawrence St.
74...	Hoseman	E. Crowley	50	Coppersmith ...	Feb., 1883....	Hose House
71...	Hoseman	P. McLaughlin	49	Permanent	Aug., 1888....	Hose House
77...	Hoseman	J. J. Emerson	42	Permanent	July, 1889....	Hose House
75...	Hoseman	T. H. Welch	47	Permanent	Nov., 1887....	Hose House
76...	Hoseman	Peter Sheehan....	36	Clerk	Dec., 1897....	11 Lyon St.
...	Substitute	J. P. Moore	32	Trimmer	Feb., 1898....	560 Gorham St.
...	Substitute	J. D'Amours	32	Steam Fitter...	Mar., 1903....	Thorndike St.

HOSE COMPANY No. 8.

NINE MEMBERS.

HOUSE ON MERRIMACK STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
150...	Captain	D. H. Crowley	44	Permanent	Feb., 1890 ...	Hose House
86...	Hoseman	W. J. Flynn	52	Permanent	April, 1885...	Hose House
87...	Clerk	W. F. Tighe	42	Driver, Wagon	Sept., 1892....	Hose House
88...	Hoseman	W. F. Dana	40	Machinist	Oct., 1888 ...	365 L. M. S. Corp.
151...	Lieutenant	B. J. Dunn	42	Permanent	Feb., 1890....	Hose House
85...	Hoseman	T. F. Lynch	38	Piper	Nov., 1895....	19 James St.
83...	Hoseman	T. F. Welch	54	Cabinet Maker	June, 1884 ...	20 Rockdale Ave.
136...	Hoseman	J. F. Convery	51	Carpenter	Jan., 1893....	39 Adams St.
89...	Hoseman	C. Collins	34	Machinist	Aug., 1894....	44 Common St.
...	Substitute	J. Bernier	34	Wood Dealer	May, 1900....	65 Salem St.
...	Substitute	W. M. Barrett	36	Grocer	Aug., 1898....	137 Salem St.

HOSE COMPANY No. 9.

HOUSE ON LINCOLN STREET.

NINE MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
91...	Captain	J. Baxter	46	Permanent	July, 1883....	Hose House
92...	Lieutenant	G. H. Chapman	49	Permanent	May, 1885....	Hose House
96...	Hoseman	J. M. Coleman	28	Operative.....	Aug., 1897....	48 Lincoln St.
93...	Driver	C. A. Rock	45	Driver, Wagon	May, 1893 ...	Hose House
94...	Hoseman	F. A. Kappler	47	Carpenter	May, 1893....	291 Lincoln St.
95...	Hoseman	D. F. Conroy	34	Clerk	Jan., 1894....	4 Carter Place
97...	Hoseman	P. Kiernan	29	Plumber	Aug., 1899....	391 Chelmsford St.
98...	Hoseman	F. H. Crosby.....	36	Plasterer	May, 1900	111 Moore St.
99...	Hoseman	Robert Maxwell	26	Stamper.....	June, 1902 ...	4 Carter Place
...	Substitute	Josh. S. King	32	Driver	Dec., 1902....	76 Washington St.
...	Substitute	W. H. Ramford	26	Plasterer	Jan., 1904....	53 Main St.

HOSE COMPANY No. 10.

HOUSE ON FOURTH STREET.

NINE MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
160...	Captain	C. F. Hemenway....	55	Permanent	Sept., 1875....	Hose House
162...	Lieutenant ...	J. McCafferty	41	Permanent	Nov., 1887....	Hose House
161...	Clerk	A. E. Kidder.....	49	Driver, Wagon .	Oct., 1887 ...	Hose House
166...	Hoseman	D. Common	55	Carpenter	Mar., 1896....	Beach St.
164...	Hoseman	C. E. Abare.....	30	Permanent	Sept., 1897....	Hose House
168...	Hoseman	Fred Mansur.....	46	Carpenter	Oct., 1889....	21 Third St.
197...	Hoseman	E. S. Barnes	35	Electrician ...	July, 1897....	Hamilton Corp.
165...	Hoseman	C. S. Hoisington....	47	Tinsmith	Aug., 1897....	Reed, cor. Fifth St.
163 .	Hoseman	B. M. Simpson.....	35	Hostler	May, 1901	Fifth St.
...	Substitute	L. P. Reed.....	25	Machinist	April, 1902...	90 Fremont St.
...	Substitute	John J. Brown	23	Machinist	June, 1903....	

HOSE COMPANY No. 11.

NINE MEMBERS.

HOUSE ON LAWRENCE STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
200...	Captain	J. J. Jennings	46	Permanent	Nov., 1883....	Hose House
201...	Lieutenant	W. A. Dolan	41	Permanent	Jan., 1888....	Hose House
202...	Clerk	J. Bamford	46	Driver, Wagon.	Dec., 1889....	Hose House
203...	Hoseman	E. Jennings	41	Permanent	Jan., 1893....	Hose House
204...	Hoseman	W. H. Meloy	46	Blacksmith	Dec., 1896....	358 Central St.
205...	Hoseman	T. J. Dwyer	42	Machinist	Jan., 1893....	534 Central St.
206...	Hoseman	George Buck.	39	Belt Maker	Jan., 1893....	742 Lawrence St.
207...	Hoseman	J. J. Doherty	42	Fruit Dealer....	Jan., 1893....	18 Mill St.
208...	Hoseman	W. J. Sullivan ...	38	Shuttle Maker .	Nov., 1896....	Lawrence St.
...	Substitute	Peter B. Gray	32	Carpenter	June, 1901....	71 Whipple St.
...	Substitute	J. H. Lannon ...	..	.....	Jan., 1905....	103 Whipple St.

TRUCK COMPANY No. 1.

TEN MEMBERS.

HOUSE ON LAWRENCE STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
210...	Lieutenant....	T. Brown.....	48	Permanent	May, 1890....	Ladder House
211...	Clerk	T. Dwyer	41	Driver, Truck..	Sept., 1888....	Ladder House
212...	Ladderman	J. O'Hare	38	Driver.....	Jan., 1893....	Ladder House
213...	Ladderman	J. F. McGuinness...	42	Cloth Finisher .	Jan., 1893....	34 Floyd St.
214...	Ladderman	J. B. Stanton.....	44	Wool Sorter ..	Jan., 1893....	17 Newhall St.
215...	Ladderman	J. D. Finnegan	39	Clerk	Jan., 1893....	185 Lawrence St.
216...	Ladderman	J. J. Donohoe	46	Teamster.....	Jan., 1893....	74 Agawam St.
218...	Ladderman	William Gilmore...	46	Clerk	Jan., 1893....	39 Walnut St.
217...	Ladderman	William Heelon ...	42	Livery Stable ..	Mar., 1896 ...	19 So. Whipple St.
...	Hoseman	C. J. Meehan	41	Mattress Maker	Aug., 1894....	Bourne St.
...	Substitute	W. D. Draper	39	Carriage Painter	April, 1898	Lawrence St.
...	Substitute	J. T. Doyle	31	Teamster.....	Jan., 1905....	130 Perry St.

TRUCK COMPANY No. 2, WITH CHEMICAL ENGINE ATTACHED.

THIRTEEN MEMBERS.

HOUSE ON WESTFORD STREET.

FIRE DEPARTMENT.

37

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
21...	Captain	D. W. Hilliard.....	52	Permanent	Aug., 1872...	Truck House
220...	Clerk	G. W. Alcott	51	Driver, Truck..	Oct., 1877...	Truck House
130...	Driver	G. A. Dickey	55	Driver, Chem'cal	Nov., 1888...	Truck House
131...	Ladderman	H. S. Gardner.....	53	Permanent	May, 1874...	Truck House
132...	Ladderman	E. E. Smith.....	51	Permanent	Jan., 1890...	Truck House
123...	Lieutenant	C. A. Thompson....	61	Carpenter	May, 1880...	16 Fernald Ave.
125...	Ladderman . . .	G. E. Maynard	47	Carpenter	Oct., 1888...	26 E. Pine St.
129...	Ladderman	L. A. Miller	40	Electrician.....	Nov., 1890...	17 Lane St.
127...	Ladderman	D. D. Libby... ..	41	Carpenter	June, 1902...	7 Osgood St.
128...	Ladderman ...	R. B. Joslin.....	31	Clerk	April, 1898...	94 Lane St.
126...	Ladderman	S. A. Pickering....	38	Carpenter	Nov., 1890...	34 Hastings St.
122...	Ladderman	A. I. Laughton. . .	49	Tinsmith	Oct., 1891...	68 Canton St.
124...	Ladderman	Q. A. Foster	47	Blacksmith	June, 1889...	56 D St.
...	Substitute	W. S. Holt.....	30	Clerk	April, 1898...	8 Hale St.
...	Substitute	H. W. Hilliard.....	22	Machinist	Jan., 1905...	135 Liberty St.

TRUCK COMPANY No. 3, WITH CHEMICAL ENGINE ATTACHED.

THIRTEEN MEMBERS.

HOUSE ON PALMER STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
110...	Captain	F. E. Fuller	55	Permanent	May, 1869 .	Truck House
141...	Lieutenant	H. F. Harris	52	Permanent	Nov., 1888....	Truck House
112...	Clerk	F. O. J. Townsend..	50	Driver, Truck .	May, 1886....	Truck House
140...	Ladderman	W. T. Foss.....	40	Permanent	April, 1892 .	Truck House
113...	Ladderman	F. W. Simons	51	Permanent	Sept., 1872....	Truck House
111...	Ladderman	R. Carland.	42	Permanent	Oct., 1893 .	Truck House
143...	Driver	H. A. Merrill	42	Driver, Chem'cal	June, 1884 .	Truck House
142...	Ladderman	P. O'Laughlin	43	Steam Fitter....	July, 1893....	104 Gorham St.
116...	Ladderman	W. P. Maker.....	40	Machinist . . .	Sept., 1888....	L. M. S. Corp.
115...	Ladderman	D. Leary	40	Steam Fitter..	Sept., 1892....	Wilder St.
118...	Ladderman	H. E. Wilkins.....	46	Permanent ...	Jan., 1890 .	Truck House
114...	Ladderman	E. Kirwin	55	Steam Fitter....	May, 1871....	Royal St.
117...	Ladderman....	E. H. Dearth.....	40	Permanent	Jan., 1893....	Truck House
...	Substitute	Thomas A. Hall....	31	Helper	Mar., 1901....	Lagrange-St.
...	Substitute. . .	W. O. Lussier	37	Blacksmith	April., 1900 .	84 Fourth Ave.

TRUCK COMPANY No. 4.

TEN MEMBERS.

HOUSE ON FOURTH STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
102...	Captain	H. B. Downs	69	Permanent	July, 1855	Truck House
101...	Lieutenant	J. W. Adams	54	Permanent	Aug., 1874	Truck House
100...	Clerk	W. L. Peabody	57	Driver, Truck	Nov., 1874	Truck House
105...	Ladderman	R. W. Stickney	43	Janitor	May, 1889	61 Twelfth St.
104...	Ladderman	E. Lepiene	50	Roll Coverer	Nov., 1894	593 Bridge St.
106...	Ladderman	N. Bishop	66	Permanent	July, 1855	Truck House
103...	Ladderman	T. McCormick	49	Lineman	Feb., 1886	172 Market St.
109...	Ladderman	T. Conway	36	Lineman	July, 1893	106 Concord St.
108...	Ladderman	W. N. Flagg	58	Carpenter	Feb., 1884	75 Whitney Ave.
107...	Ladderman	H. Mangan	35	Caterer	Aug., 1897	Tenth St.
...	Substitute	A. G. Beharrel	24	Real Estate	June, 1901	89 Fremont St.
...	Substitute	Major Wright	33	Brick Layer	Jan., 1905	89 Third St.

PROTECTIVE COMPANY No. 1.

HOUSE ON WARREN STREET.

SIX MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
80...	Captain	J. L. Flagg	69	Permanent	Feb., 1875	Protective House
82...	Lieutenant	W. H. Halstead	60	Permanent	May, 1864	Protective House
84...	Patrolman...	George E. Schofield.	38	Permanent.....	Dec., 1897	Protective House
81	Patrolman.....	J. W. Halstead.....	56	Permanent	Jan., 1872 ..	Protective House
8...	Clerk	J. F. McKissock ...	52	Driver, Wagon.	July, 1889	Protective House
83...	Patrolman.....	M. C. Rowell....	41	Permanent	April, 1894....	Protective House
...	Substitute	J. F. Flemings .	28	Substitute.....	Mar., 1902	Oak St.

Schedule of All the Fires which Occurred in

Date 1994	Time	Signal	Recall	Location	Wood, Brick or Stone	Owned

well During the Year Ending December 31, 1904.

Schedule of All the Fires which Occurred in the City of Los Angeles										Remarks	
Date	Time	Signal	Locality	Wood	Brick	Occupied by	Occupied by	Amount of Damage	Amount of Insurance	Cause of Fire	
July 1	8:25 p.m.	37	Elizabetta st.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Meat on stove
July 1	8:30 p.m.	38	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Dump
July 1	8:35 p.m.	39	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Gas stove not used
July 1	8:40 p.m.	40	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Children, sparks from forge
July 1	8:45 p.m.	41	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	8:50 p.m.	42	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	8:55 p.m.	43	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	9:00 p.m.	44	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	9:05 p.m.	45	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	9:10 p.m.	46	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	9:15 p.m.	47	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	9:20 p.m.	48	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	9:25 p.m.	49	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	9:30 p.m.	50	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	9:35 p.m.	51	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	9:40 p.m.	52	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	9:45 p.m.	53	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	9:50 p.m.	54	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	9:55 p.m.	55	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	10:00 p.m.	56	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	10:05 p.m.	57	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	10:10 p.m.	58	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	10:15 p.m.	59	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	10:20 p.m.	60	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	10:25 p.m.	61	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	10:30 p.m.	62	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	10:35 p.m.	63	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	10:40 p.m.	64	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	10:45 p.m.	65	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	10:50 p.m.	66	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	10:55 p.m.	67	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	11:00 p.m.	68	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	11:05 p.m.	69	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	11:10 p.m.	70	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	11:15 p.m.	71	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	11:20 p.m.	72	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	11:25 p.m.	73	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	11:30 p.m.	74	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	11:35 p.m.	75	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	11:40 p.m.	76	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	11:45 p.m.	77	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	11:50 p.m.	78	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	11:55 p.m.	79	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	12:00 p.m.	80	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	12:05 p.m.	81	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	12:10 p.m.	82	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	12:15 p.m.	83	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	12:20 p.m.	84	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	12:25 p.m.	85	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	12:30 p.m.	86	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	12:35 p.m.	87	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	12:40 p.m.	88	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	12:45 p.m.	89	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	12:50 p.m.	90	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	12:55 p.m.	91	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	1:00 p.m.	92	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	1:05 p.m.	93	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	1:10 p.m.	94	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	1:15 p.m.	95	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	1:20 p.m.	96	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	1:25 p.m.	97	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	1:30 p.m.	98	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	1:35 p.m.	99	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	1:40 p.m.	100	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	1:45 p.m.	101	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	1:50 p.m.	102	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	1:55 p.m.	103	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	2:00 p.m.	104	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	2:05 p.m.	105	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	2:10 p.m.	106	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	2:15 p.m.	107	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	2:20 p.m.	108	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	2:25 p.m.	109	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	2:30 p.m.	110	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	2:35 p.m.	111	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	2:40 p.m.	112	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	2:45 p.m.	113	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	2:50 p.m.	114	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	2:55 p.m.	115	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	3:00 p.m.	116	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	3:05 p.m.	117	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	3:10 p.m.	118	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	3:15 p.m.	119	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	3:20 p.m.	120	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	3:25 p.m.	121	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	3:30 p.m.	122	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	3:35 p.m.	123	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	3:40 p.m.	124	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	3:45 p.m.	125	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	3:50 p.m.	126	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	3:55 p.m.	127	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	4:00 p.m.	128	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	4:05 p.m.	129	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	4:10 p.m.	130	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	4:15 p.m.	131	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	4:20 p.m.	132	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	4:25 p.m.	133	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	4:30 p.m.	134	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	4:35 p.m.	135	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	4:40 p.m.	136	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	4:45 p.m.	137	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	4:50 p.m.	138	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	4:55 p.m.	139	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	5:00 p.m.	140	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	5:05 p.m.	141	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	5:10 p.m.	142	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	5:15 p.m.	143	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	5:20 p.m.	144	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	5:25 p.m.	145	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	5:30 p.m.	146	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	5:35 p.m.	147	Central ave.	Wood		Mrs. J. B. Sullivan	Unoccupied	Dwelling	20.00	10,000.00	Superior model of quilt
July 1	5:40 p.m.	148	Central ave.	Wood		Mrs. J. B.					

IN THE CITY OF LOWELL DURING THE YEAR ENDING DECEMBER 31, 1904.

FIRE-ALARM TELEGRAPH.

Location — Engine House, Palmer St.

HENRY C. FERNALD, OPERATOR.

Ten-Circuit Automatic Repeater with Storage Battery of
400 Cups

Miles of Wire	-	-	-	-	-	-	-	100
Signal Boxes	-	-	-	-	-	-	-	127
Engineers' Gongs	-	-	-	-	-	-	-	8
Engineers' House Gongs			-	-	-	-	-	15
Indicators	-	-	-	-	-	-	-	17
Bell Strikers	-	-	-	-	-	-	-	10

Gong and Indicator combined in Police Station.

Gong in Pumping Station.

Gong on Merrimack Square.

Gong at Towers' Corner.

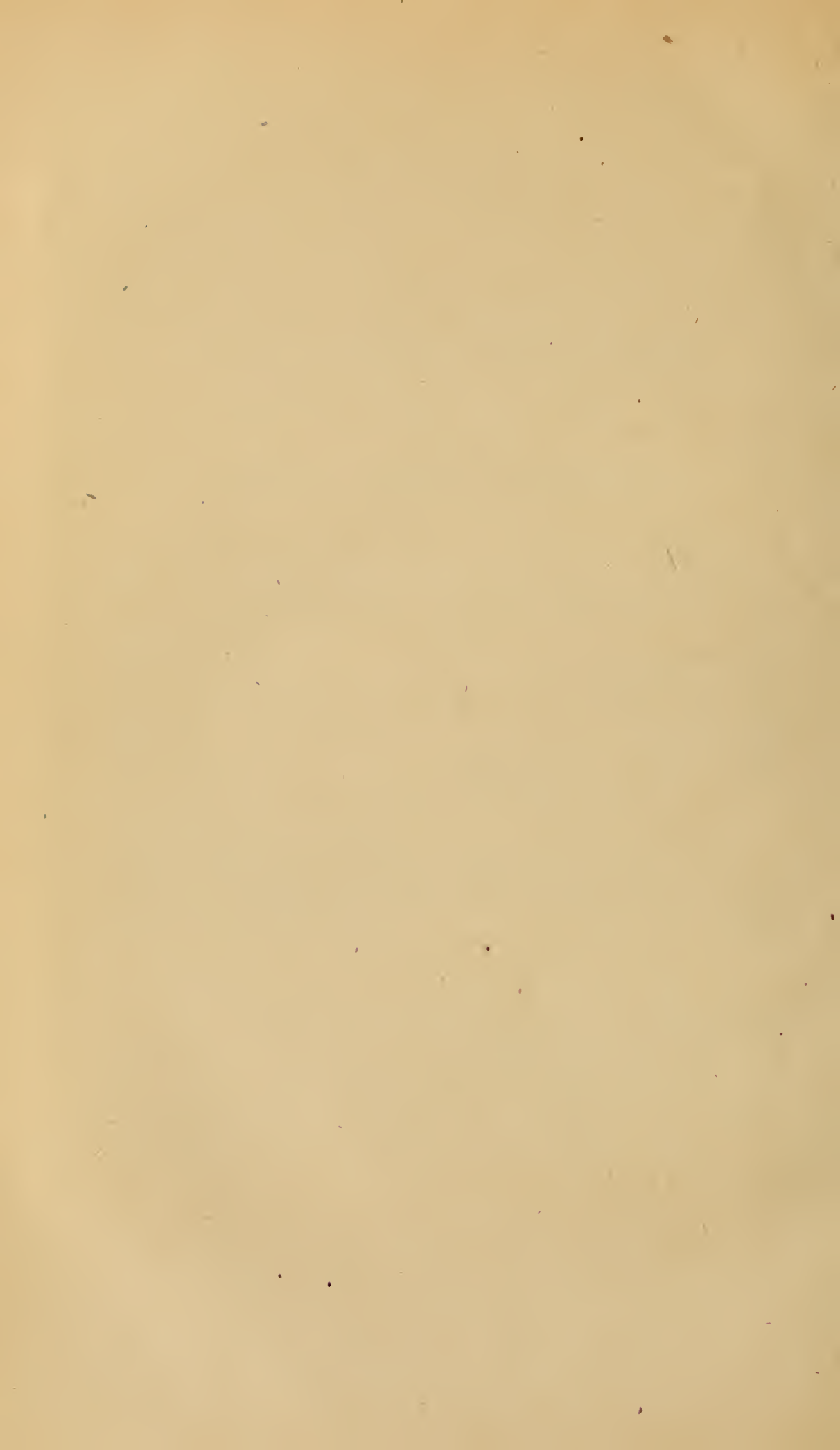
Gong at Northern Depot.

The strikers are located as follows: Palmer Street Engine House, Varnum School House, High Street Church, Court House, No. 1 Engine House, Franklin School House, Pawtucketville Engine House, No. 6 Engine House, Highland School House, Lawrence Street Engine House.

TELEPHONE CIRCUIT.

Complete Stations	-	-	-	-	-	-	19
Tap Bells (Extra)	-	-	-	-	-	-	43
Miles of Wire	-	-	-	-	-	-	40
Storage Battery of 100 Cups.							

The value of all property, as near as can be ascertained, in care of the Chief of this Department, is \$154,000.00.



ANNUAL REPORT
OF THE
Superintendent of Street Lights
LOWELL, MASS.
FOR THE
Year Ending December 31
1904



LOWELL, MASS.
F. A. M. TOBIN'S PRINTERY,
1905,

REPORT.

LOWELL, January 1, 1905.

To the Mayor and Board of Aldermen:

GENTLEMEN:— Herein is submitted the Annual Report of the Superintendent of Street Lights for the year ending December 31, 1904.

The lighting of the streets is all done by contract, with a rebate for all lights not burning the designated time. In addition to the police, who report all lights not burning and out of order, one permanent man (paid by this department and two others who are not) from the Fire Department are detailed to look after all lights and see that they are kept in good order and giving the amount of light the city pays for.

During the past year no lights of any kind have been added. At almost the last meeting of the Board

of Aldermen the Committee on Lighting reported locations for about thirty lights of the different kinds, which the Mayor vetoed. The Board being unable to pass it over his veto, the report will stand as at the beginning of the year. The number of electric lights are 522, with eight additional on Fort Hill Park. They burn all night and cost 33 cents each light per night.

The gas and gasolene lighting is contracted with the Welsbach Street Lighting Co. The gas contract expires in September. With the new contract, and before if possible, I would recommend that the gas lights be kept burning all night and every night. The price of the gas lights is \$23 per year, and burn every night but four in each month until one o'clock a. m. There are seven lights that burn all night that cost \$30 each per year, and three double burners that cost \$36.50 each per year. At present there are 1,112 gas lights of all kinds. The gasolene lights cost 9 1-4 cents each light per night. They burn twenty-five nights each month until one o'clock. There are at present 408.

The following statement will show the appropriation and expenditures for the year 1904:

APPROPRIATION.

Lighting streets	\$101,645 00
Lighting public buildings	30 00
Sundries	300 00
New lights	300 00
	<hr/>
	\$102,275 00

EXPENDITURES.

Electric Light Co., streets	\$ 63,327 75
Welsbach Gas Light Co., streets	25,577 47
Welsbach Gasolene, streets	11,182 51
Gas Co., streets	107 16
Gas Co., public buildings	20 34
Labor and sundries	1,153 87
Transferred to general treasury fund	905 90
	<hr/>
	\$102,275 00

The value of all property as near as can be ascertained in care of the Superintendent of this Department is \$17,000.00.

Respectfully submitted,

EDWARD S. HOSMER,

Superintendent.

ANNUAL REPORT

OF THE

BOARD OF POLICE

FOR THE

YEAR ENDING MAY, 1905



LOWELL, MASS

COURIER-CITIZEN JOB PRINT

1905

ANNUAL REPORT.

HON. JAMES B. CASEY,

Mayor, City of Lowell.

Dear Sir:—The Board of Police of the City of Lowell has the honor to submit herewith the annual report of its administration.

The Lowell Police force, as at present constituted, consists of one superintendent and one deputy superintendent of police, one captain, four lieutenants, five inspectors, three sergeants, and one hundred and eighteen regular and reserve patrolmen. The employees of the department are an electrician and assistant, a signal service operator, a messenger, three patrol drivers, a hostler, a charman, a matron and stenographer. Of the patrolmen, only the regular officers are a charge to the city, the reserve men being paid only for actual duty done, by reason of the absence of the regular officers, or for police work done for private purposes.

The discipline of the force throughout the year has on the whole been satisfactory, there being only four men brought before the Board under charges. The case against one officer was dropped, the charge being trivial; another officer was reprimanded in general orders; and two were dismissed from the service, the gravity of their offence warranting such action. One officer resigned during the year and one was retired on a pension, his death following shortly after his retirement. Twenty-one special police without pay from the city were appointed.

The regulation of the sale of intoxicating liquors and the enforcement of the laws governing the traffic constitute the most vexatious problem the Board has to face, and the problem is not made less complicated by the general lack of public knowledge of the liquor laws and the limitations of the authority of this and every other licensing body in the Commonwealth. It is difficult at times to convince that portion of the public which has a passion for cavilling, that the Board of Police cannot apply and enforce laws which do not exist; and it is equally futile to attempt to make many worthy, earnest and otherwise intelligent people understand that licensed liquor dealers have any rights which they are bound to respect and which this Board as an executive body cannot ignore. The laws governing the keeping and sale of intoxicating liquors are made by the Legislature and their intent and meaning are interpreted by the Courts; and the Board of Police cannot assume to possess more power than the General Court, nor more wisdom than the Supreme Bench. The legitimate function of this Board is to regulate and control the traffic conducted by the licensees and not to harry and suppress it; and it would be manifestly in violation of the American spirit of fair play and justice to assume that men conducting a licensed and legalized business are criminals because that business is not especially popular. The fees for licensees are high; the logic of high license being that responsibility and respect for law are cultivated where disregard of them entails large financial loss. A majority of the voting population favors the license system at the polls; and the sum added to the municipal treasury from license is not unwelcome under the present financial conditions of the city.

In the matter of hotels, it should be understood that their license compels hotels to be open and ready to do business on all days and at all times, under reasonable conditions; and a hotel keeper cannot refuse to

cater to any sober and respectable person without imperilling his license. While many *bona fide* guests patronize hotels on Sundays, there are doubtless persons visiting hotels whose purpose is to obtain liquor; but the fact that people go in and out of hotels is not an evidence that an illegal traffic is being conducted there; and as long as the business is conducted in an orderly way the positive evidence of illegality is difficult to secure. Ample precautions have been taken to make illegal business difficult and dangerous; inspectors visit the hotels frequently and take cognizance of the business transacted; but the difference between the *bona fide* and the thirsty guest in appearance and conduct is so shadowy that the question of illegality is not an easy one to define and settle. Unless the evidence obtained is positive and satisfactory to the Courts, convictions are hard to secure and much expense to the County is entailed, without any gain to law or morals. Under the circumstances the best that can be done—and this is the general experience throughout the State—is to secure quiet, order and decency, by vigilance and supervision; and that these results are secured is shown by the fact that if any illegal business is transacted it is sly, secret and surreptitious.

Patrolmen and their superior officers are required to visit and inspect personally all the licensed premises on their routes and to report daily in writing the conditions observed to the Superintendent of Police. The Board believes this constant supervision has an excellent effect upon the licensees, who realize that any laxity in the observance of the conditions of their licenses will be unpleasant and costly in results.

Quite recently the Mayor invited the attention of the Board to a provision of the law—specifically to Section 6 of Chapter 102 of the Revised Laws—which requires that the premises of an applicant for an innholder's or common victualler's license must be equipped

with the necessary implements and facilities for cooking and so forth at the time application for a license is made, if the license is to be issued. The possession of an innholder's or common victualler's license being a prerequisite to the issuance of any license to sell intoxicating liquors of the first class—liquors to be drunk on the premises—the matter and law in question had, of course, a necessary connection with the premises of licensed liquor dealers, although the two licenses are different and separate. There is no doubt that the law, which is a very old one, antedating the introduction of the licensed liquor system, contemplated the ordinary victualling places, which existed in earlier days in the Commonwealth, when it was expected the victualler must be prepared to do business when his license was applied for and granted.

The custom all over this Commonwealth has been to ignore the letter of this law and to see that victualling establishments, when connected with the liquor business, should be properly fitted up before the liquor licenses were granted and issued on the first day of May, annually. Since the introduction of the limited license system, when applicants outnumber those to whom licenses are issued, it would appear to be a real hardship to insist that an applicant fit up a place at an expense of hundreds of dollars when he had no absolute knowledge that a license as a liquor dealer would be granted him.

It has been the custom of the Board of Police to make a provisional grant of licenses with a view of acquainting the public with the names of those who are to engage in the business of selling intoxicating liquors during the ensuing year, and to advise the applicants which of them have been selected. This serves the double purpose of giving information the public is expecting, and of serving notice upon all successful applicants that if they have applied from premises which do not come up to the legal require-

ments they must at once apply again from premises which do meet these requirements, when at a later date the regular, official and formal granting of licenses is made and recorded, and illegality and hardship are obviated.

It is only just to add that if there has been any failure to observe this technical and literal interpretation of the law, it has resulted in no evil consequences affecting the well-being or morals of the community; and possibly the seeming hardship of its enforcement could be mitigated by making the application for liquor licenses precede that for innholder and common victualler licenses, and the granting of them later.

During the year licenses to sell intoxicating liquors have been granted as follows:—

- 16 first-class licenses as Innholders.
- 75 first-class licenses as Common Victuallers.
- 91 fourth-class licenses as Retail Dealers.
- 2 fourth-class licenses as Wholesale Dealers.
- 1 fifth-class license as Brewer.
- 43 sixth-class licenses as Druggists.
- 5 seventh-class licenses as Dealers in Paints and Chemicals.
- 3 special Club.

One sixth-class license was granted but never issued, owing to the death of the applicant; one sixth-class license was revoked; and one first-class license as innholders, three as common victuallers, four fourth-class licenses as retail dealers and one sixth-class license as druggist, were granted transfers of location.

The total income derived from liquor license fees was as follows:—

16 first-class Innholders, @ \$1,650	\$26,400 00
75 first-class Common Victuallers, @ \$1,300	97,500 00
91 fourth-class Retail Dealers, @ \$500	45,500 00
2 fourth-class Wholesale Dealers, @ \$1,500	3,000 00
1 fifth-class, Brewer, @ \$1,500.....	1,500 00
43 sixth-class, Druggists, @ \$1	43 00
5 seventh-class, Dealers in Paints & Chemicals, @ \$1	5 00
3 special Clubs, @ \$50.....	150 00
<hr/>	
Total revenue	\$174,098 00
Less 25% for State Treasury	43,524 50
<hr/>	
Revenue turned into City Treasury.....	\$130,573 50

Minor licenses as follows were granted during the year:—

Hawkers and peddlers.....	494
Itinerant venders	1
Common victuallers	406
Innholders	19
Night lunch wagons.....	9
Fish wagons	21
Job and express wagons.....	177
Hackney coaches.....	63
Junk collectors	82
Junk dealers, etc	32
Dealers in old gold, etc	4
Pawnbrokers	7
Money lenders	4
Auctioneers	32
Intelligence offices	10
Pool and billiard tables.....	62
Bowling alleys	4
Theaters	7
Roller skating rinks	3
Amusement permits	10

The revenue from minor licenses and kindred sources turned into the City Treasury amounted to \$2,736.70.

The annual meeting of the International Association of Chiefs of Police, which is an organization of the heads of police departments of the principal cities of the United States, Canada, Mexico and several European countries, was held in Washington, D. C., in May, 1905, and, pursuant to instructions from the Board of Police, our Superintendent of Police attended the sessions. These annual meetings have been of much instructive and educational benefit to all the members of the association, by reason of the interchange of ideas, suggestions and experiences of its membership; and the value of these gatherings is not diminished by the various chiefs getting in personal touch with each other and making private friendships which beget a personal interest in the transaction of public business.

The Board takes a pardonable pride in the knowledge that its department and superintendent were the first in the Republic to adopt and utilize the so-called finger-print system to supplement the Bertillon anthropometrical system of criminal identification. The Superintendent of the Lowell Police Department, Mr. William B. Moffatt, after inquiry, study and investigation of the merits of the finger-print system, was convinced that it was as absolute, positive and infallible a method of identifying criminals and others as human ingenuity has so far devised, and recognizing this fact, he advocated its introduction into the various police departments of this Commonwealth with zeal and intelligence, with the result that it has been incorporated into these departments officially by legislative action. His advocacy of the system, fortified by his experience, has led to its introduction in many places throughout the country, and its suitability and simplicity are factors which bid fair to lead to its adoption not only officially by the United States government, but as a protective and preventive proposition in the business life of the country.

The signal service system of Lowell has worked well and satisfactorily throughout the year, and the placing of the wires of the system underground has been followed as rapidly as conditions would permit. While there is hardly any probability that all the wires will at any time ever be underground, it is believed that in time all the overhead wires will be eliminated from the main streets and business-congested portions of the city, bringing the system into harmony with the policy of the municipal government.

The statistical report of the work of the department is transmitted herewith.

FRANK B. DOW,
FISHER H. PEARSON,
LAFOREST BEALS,
Board of Police.

Office of the Board of Police, Lowell, Mass.,

1st June, 1905.

STATISTICAL REPORTS
OF THE
LOWELL POLICE DEPARTMENT

JUNE 1904—1905 MAY.

RECORD OF ARRESTS, 1904-5, WITH DISTRIBUTION ACCORDING TO SEX,
OCCUPATION AND NATIONALITY.

AGAINST PUBLIC ORDER.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	Totals
Adultery	2			2	3	2	2				4		15
Bastardy.....		2	2			2	1			1	3	2	13
City Ordinance, Violating	3	3		10	7		1				1	3	30
Common Brawler.....			1										1
Cruelty to Animals	5	1							1	1			8
Disturbing the Peace	2	9	7						1	2			21
Drunkenness	335	386	405	330	368	259	292	223	242	272	318	280	3,710
Escape from Prison.....		3	1		1			1				2	8
Fornication.....		6	2	2	3	2	2	2	2		2		23
Idle and Disorderly.....	1			1	1			1					4
Indecent Exposure.....	1				1						1	1	4
Lewd Cohabitation.....					2				2	2			6
Lewdness				3									3
Liquor Laws, Violating.....	3	7	6	1								2	19
Neglect of Family.....	6	8	8	6	5	4	1	2	5	1	1	7	54
Peddling, Unlicensed		1									1	1	3
Interfering with Officer			2										2
Stubbornness	2	2	7	4	3	1	2		1	2	3	3	32
Vagrants			4			4		4	1	1	12		16
Suspicious Persons	29	21	24	15	3	5	4	8	10	5	12	7	143
Insane	5	3	3	2	7	4	6	3	1	1	2	2	39
Truants	1				3	5	3	2	2	11		21	48
Gambling		2	11	3				33			15		64
Capias, etc	4	3	5	3		1	6	1	2	6	1		32
Neglected Children.....	1	4								2	9	2	18
Health and Food Laws, Violating ..	5	1	7	1								1	15
Lord's Day, Violating.....	5					1					6		12
Miscellaneous	10	3	3	1	4		3	5	3			4	36
Totals	420	467	498	384	411	290	323	287	273	307	381	338	4,379

AGAINST THE PERSON.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	Totals
Assault	16	27	22	9	19	16	10	19	9	19	5	8	179
Assault Felonious	1		2	1	2	4	3		1	1	1	2	18
Murder								1					1
Threats	1	1	4	2	1	2	1	1	1		1	1	16
Totals	18	28	28	12	22	22	14	21	11	20	7	11	214

AGAINST PROPERTY.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	Totals
Arson					1								1
Breaking and Entering	1	14	2	2	2	7	1	3		8	2	2	44
Embezzlement			1	1	1	1							4
Evading Fare.....		2	2							1			5
Larceny	26	33	27	42	22	21	29	14	26	16	23	33	312
Malicious Mischief		2	1	1	3	3	3		1	3	1	1	19
Receiving Stolen Goods.....				1						4	1		6
Trespass	7	1	2		2			1			4	2	19
Unlawful Taking	3	1								1			5
Suspicion of Breaking and Entering ..				1									1
Suspicion of Larceny.....	3	4	2	5	1		4			3	5	1	28
Sale of Mortgaged Property					2		1				1		4
Illegally Removing Baggage	1		1	2				1			1	1	7
Concealing Personal Property	2	1										1	4
False Answers to Stableman												1	1
Totals	43	58	38	55	34	32	38	19	27	36	38	42	460

DISTRIBUTION ACCORDING TO SEX, NATIONALITY AND OCCUPATION.

	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	Totals
Men	367	416	421	339	357	272	299	254	248	283	340	293	3,889
Women	63	63	74	50	71	28	41	40	41	40	41	42	594
Minors	36	48	56	53	28	27	22	24	18	33	36	51	432
Non-Residents	152	162	149	126	138	111	104	80	101	108	141	115	1,487
United States.....	222	234	219	191	201	150	166	128	148	165	194	187	2,205
England	47	50	48	33	36	24	28	27	16	34	34	24	401
Ireland	94	111	109	111	103	63	75	53	63	61	67	90	1,000
Scotland.....	6	17	10	11	16	12	16	5	3	9	7	5	117
British Provinces.....	60	87	86	56	63	53	53	37	56	58	64	39	712
Greeks	13	5	10	14	7	6	9	43	...	6	28	17	158
Russians	13	13	41	12	19	6	7	23	17	8	11	14	184
Turkish Empire .....	..	6	13	3	2	4	2	1	1	11	3	4	50
Miscellaneous	11	4	15	11	9	9	6	1	3	4	9	6	88
Totals	466	527	551	442	456	327	362	318	307	356	417	386	4,915
Building Trades	34	36	29	33	38	25	30	17	19	29	32	15	337
Mechanical Trades	40	44	35	28	30	31	34	30	40	24	36	33	405
Mill and Factory	152	151	196	151	160	115	124	111	109	124	137	117	1,647
Shops and Stores.....	28	29	39	20	13	13	10	9	10	16	20	20	227
Professional	6	6	3	6	2	2	2	2	3	2	4	3	41
Agricultural.....	6	13	18	6	13	4	3	2	8	4	7	14	98
Clothing and Garb	14	16	11	10	11	8	8	13	12	7	8	11	129
Agents, etc	6	12	2	3	4	5	6	5	6	4	8	7	68
Laborers	119	139	158	115	124	82	101	86	65	87	109	97	1,282
Service, Domestic, etc.....	31	33	24	28	28	15	15	19	16	23	21	20	273
Transportation.....	17	24	19	23	18	16	19	18	11	13	13	22	213
Children	9	17	5	12	4	7	5	3	2	21	16	25	126
Miscellaneous	4	7	12	7	11	4	5	3	6	2	6	2	69
Total	466	527	551	442	456	327	362	318	307	356	417	386	4,915

REPORT OF BUREAU OF CRIMINAL INVESTIGATION.

ITEMS.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	Totals
Value of property lost and stolen	\$220 65	\$466 20	\$491 90	\$283 54	\$270 00	\$600 46	\$580 00	\$719 25	\$589 65	\$789 00	\$477 12	\$658 19	\$6,145 96
Value of property recovered	390 55	318 75	332 24	212 15	191 51	274 60	589 90	221 46	365 86	410 75	290 40	521 75	4,119 92
Value of property still missing	.....	147 45	159 66	71 39	78 49	325 86	.....	497 81	223 79	378 25	176 72	136 44	2,195 86
Value of property recovered for other police departments	250 00	.....	316 00	445 00	35 00	55 00	150 00	100 00	.....	.....	.....	150 00	1,501 00
Number of arrests	39	34	17	23	26	40	29	21	38	35	12	24	338

CONSOLIDATED MONTHLY REPORT OF PATROLMEN — 1904-5.

ITEMS.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	Totals
Persons arrested	283	301	354	261	271	236	143	231	230	232	293	213	3,048
Persons drunk assisted home	16	22	19	19	34	23	24	14	21	23	22	19	256
Violations of liquor laws	3	1	.....	2	1	.....	.....	.....	.....	.....	.....	.....	7
Buildings found open and secured	90	77	78	109	100	96	91	76	67	94	96	129	1,103
Defects in street	17	16	20	33	10	6	2	13	6	24	15	20	182
Fire alarms given	.....	1	3	2	1	2	1	3	.....	3	2	2	20
Lost children found	9	26	3	5	4	3	5	3	5	10	11	10	94
Lamps out, gas	5	4	9	2	7	53	28	32	60	51	18	2	271
Lamps out, gasolene	38	12	113	97	88	44	60	25	25	8	27	4	541
Lamps out, electric	19	60	83	168	89	244	127	162	61	76	54	34	1,177
Teams cared for	4	2	2	5	5	1	2	4	7	3	2	4	41
Unlighted obstructions	5	3	11	13	17	9	6	4	10	5	5	14	102
Obstructions removed	8	1	4	2	3	2	.....	4	.....	1	4	.....	29
Disturbances quelled	33	33	52	40	34	46	39	33	36	34	34	53	467
Value of property stolen and recovered	\$29 50	\$65 00	\$32 50	\$54 50	\$15 00	\$43 00	\$14 25	\$10 00	\$31 50	.....	\$82 00	\$25 00	\$402 25

REPORT OF MATRON OF LOCK-UP — 1904-5.

OFFENCES.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	Totals
Drunkenness	50	57	66	39	57	27	33	35	39	39	27	28	507
Assault and Battery	4	5	.....	.....	1	2	.....	.....	1	1	3	1	18
Neglected Children .....	.....	1	.....	.....	3	.....	.....	.....	.....	1	.....	1	6
Stubbornness	2	1	1	2	2	.....	1	1	1	1	3	3	18
Common Brawler .....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Fornication .....	.....	1	1	1	2	.....	1	.....	.....	1	.....	1	8
Threats	1	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	3
Injury to Personal Property	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Idle and Disorderly	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	2
Concealing Mortgaged Property	1	.....	.....	.....	1	.....	.....	.....	.....	.....	3	.....	2
Adultery	1	.....	.....	.....	.....	2	1	1	.....	.....	.....	3	9
Larceny	1	.....	.....	9	1	1	1	1	.....	.....	2	.....	19
Removing Baggage	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Liquor Laws, Violating .....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	2
Suspicious Persons .....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Lewdness .....	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	3
Insane .....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	3
Lewd Cohabitation .....	.....	.....	.....	.....	1	.....	.....	.....	1	1	.....	.....	3
Injuring Building .....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Trespassing .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2
Murder .....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Safe Keeping .....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Forgery .....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Capias, etc .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	3
Total Arrests	63	67	71	57	70	32	37	41	43	47	39	39	606
Money taken from Prisoners and returned	\$4 05	\$10 15	\$17 92	\$35 81	\$24 45	\$43 25	\$24 60	\$11 98	\$3 25	\$13 32	\$26 78	\$17 01	\$232 57

REPORT OF KEEPER OF LOCK-UP — 1904-5.

ITEMS.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	Totals
Lodgers.....	3	9	13	5	12	15	6	7	2	8	5	5	90
Males.....	3	7	13	3	6	7	5	6	2	5	4	5	66
Females.....	...	2	...	2	6	8	...	1	1	3	1	...	24
Minors.....	2	4	8	3	7	8	...	1	...	3	3	...	41
Native born.....	2	5	12	4	7	12	6	4	...	8	4	2	68
Alien.....	1	4	1	1	5	3	...	3	1	...	1	2	22
Residents.....	...	...	10	5	5	4	1	...	...	...	5	5	36
Non-residents.....	3	9	3	...	7	11	5	7	2	7	...	...	54
Money of prisoners taken and returned.....	\$373 82	\$1,176 30	\$725 59	\$562 48	\$949 36	\$677 83	\$475 57	\$419 81	\$457 53	\$637 04	\$768 42	\$606 16	\$7,834 91

REPORT OF PATROL-WAGON SERVICE — 1904-5.

ITEMS.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	Totals
Number of calls.....	309	345	365	316	321	224	246	198	205	233	298	237	3,297
Number of arrests.....	354	400	462	344	384	260	275	249	250	265	347	283	3,873

REPORT OF POLICE TELEPHONE SIGNAL SYSTEM, 1904-5.

MONTHS.	Number of Duty Calls	Number of Telephone Calls	Number of Wagon Calls	Number of Prisoners Carried	Number of Miles Travelled
June	35,880	2,985	307	354	354
July	38,086	3,333	344	400	402
August	37,498	2,985	364	462	415
September	38,034	3,142	314	344	329
October.....	40,465	3,298	328	384	370
November.....	38,421	3,042	223	260	238
December	40,749	3,257	245	275	252
January	38,718	2,930	190	249	182
February	34,971	2,730	204	250	201
March.....	38,474	3,150	234	265	233
April.....	38,638	3,170	276	347	311
May	40,799	3,086	239	283	280
Totals.....	460,733	37,108	3,268	3,873	3,567

NAMES AND RESIDENCES OF MEMBERS OF THE LOWELL POLICE DEPARTMENT.

Police Headquarters,
Lowell, Mass., June 10th, 1905.

Name.	Residence.
Moffatt, William B., Superintendent.....	35 London St.
Welch, Redmond, Deputy Superintendent.....	571 Central St.
Kew, William R., Captain.....	17 Princeton St.
Brosnan, James, Lieutenant.....	505 High St.
Donaldson, David J., Lieutenant.....	204 Wentworth Ave.
Downey, Hugh, Lieutenant.....	183 Pleasant St.
Webster, James E., Lieutenant.....	273 Westford St.
Goodwin, Frank, Inspector.....	17 Coral St.
Laflamme, Charles, Inspector.....	784 Moody St.
Maher, Martin A., Inspector.....	92 Twelfth St.
McDonald, Michael E., Inspector.....	368 Merrimack St.
Walsh, John A., Inspector.....	145 Mammoth Road
Connors, Martin, Sergeant.....	282 Concord St.
Crowley, John B., Sergeant.....	112 Walker St.
Freeman, John, Sergeant.....	491 Gorham St.
Abbott, George S., Patrolman.....	807 Moody St.
Atkinson, Thomas R., Patrolman.....	19 Loring St.
Boyle, James, Patrolman.....	38 May St.
Breault, Eloi N., Patrolman.....	7 Dracut St.
Brown, George H., Patrolman.....	15 Hurd St.
Buchanan, John, Patrolman.....	106 Beech St.
Bumps, William G., Patrolman.....	256 Gibson St.
Burnett, William C., Patrolman.....	45 Tolman Ave.
Castles, Stephen J., Patrolman.....	24 Schafer St.
Cawley, Peter, Patrolman.....	872 Bridge St.
Clancy, Michael J., Patrolman.....	10 Mill St.
Clement, Horace W., Patrolman.....	26 Eighteenth St.
Cogger, Daniel W., Patrolman.....	834 Moody St.
Coleman, Thomas F., Patrolman.....	736 Central St.
Conway, John E., Patrolman.....	16 Linden St.
Corcoran, Peter T., Patrolman.....	336 High St.

Name.	Residence.
Creahin, John, Patrolman.....	441 Pine St.
Creamer, Ambrose M., Patrolman.....	56 Read St.
Crowley, John J., Patrolman.....	107 Blossom St.
Deering, Henry E., Patrolman.....	80 Beech St.
Dennett, John S., Patrolman.....	55 Read St.
Donovan, John J., Patrolman.....	42 Claire St.
Dooley, Jeremiah J., Patrolman.....	72 Chestnut St.
Duncan, Alexander, Patrolman.....	1022 Central St.
Dwyer, Philip, Patrolman.....	65 Chestnut St.
Dwyer, Timothy J., Patrolman.....	501 High St.
Ealy, Frank B., Patrolman.....	435 Wilder St.
Farris, Henry E., Patrolman.....	847 Lawrence St.
Fitzgerald, Thomas H., Patrolman.....	201 Manchester St.
Flanagan, Edward F., Patrolman.....	27 Bowden St.
Fox, Edward, Patrolman.....	8 Eddy St.
Fox, Frank, Patrolman.....	20 Chambers St.
Fox, John W., Patrolman.....	598 Bridge St.
Frawley, Patrick J., Patrolman.....	31 Madison St.
Ganley, John J., Patrolman.....	81 Boynton St.
Giroux, William, Patrolman.....	497 Moody St.
Grady, William H., Patrolman.....	39 Lundberg St.
Grinnell, Enoch N., Patrolman.....	110 Appleton St.
Hamilton, Charles A., Patrolman.....	11 Sixth St.
Healey, John F., Patrolman.....	3 Coburn Place
Hersey, Charles H., Patrolman.....	4 Fernald St.
Hessian, Thomas H., Patrolman.....	30 Chippewa St.
Hickson, John, Patrolman.....	60 Mammoth Road
Hill, Charles S., Patrolman.....	10 Stackpole St.
Hill, Edward E., Patrolman.....	308 High St.
Hogan, David H., Patrolman.....	82 Varney St.
Holland, James E., Patrolman.....	34 Second Ave.
Holman, Alfred M., Patrolman.....	126 Powell St.
Howard, Cornelius, Patrolman.....	79 Andrews St.
Ingalls, Lindsey E., Patrolman.....	147 Coburn St.
Kane, Bartholomew, Patrolman.....	20 Mill St.
Kiernan, Michael, Patrolman.....	39 State St.
Killoy, William H., Patrolman.....	9 Rockdale Ave.
Lamoureux, Joseph L., Patrolman.....	4 Dane St.
Lane, Daniel W., Patrolman.....	956 Middlesex St.
Leighton, John L., Patrolman.....	78 South Loring St.
Lennon, Michael J., Patrolman.....	10 Pleasant St.
Libby, Albert E., Patrolman.....	61 Eighteenth St.
Lynch, Jeremiah, Patrolman.....	37 Whipple St.
Maguire, Hugh, Patrolman.....	349 Concord St.

Name.	Residence.
Markham, James, Patrolman.....	12 Burns St.
Marshall, Frank K., Patrolman.....	78 Warwick St.
Marshall, George W., Patrolman.....	485 Parker St.
McCann, Matthew J., Patrolman.....	184 Pleasant St.
McCloughry, Thomas, Patrolman.....	670 Bridge St.
McIntee, Cormack, Patrolman.....	37 Hampshire St.
McKay, John H., Patrolman.....	130 Bartlett St.
McNabb, James, Patrolman.....	63 Dunfey St.
McQuade, James A., Patrolman.....	227 Concord St.
Molony, Thomas A., Patrolman.....	44 Whipple St.
Moore, Francis E., Patrolman.....	545 Middlesex St.
Mulry, John J., Patrolman.....	8 Crane Ave.
Murphy, Anthony, Patrolman.....	255 Concord St.
Murphy, Philip D., Patrolman.....	491 Lawrence St.
Nichols, Ezra A., Patrolman.....	222 High St.
Noye, Jose V. M., Patrolman.....	415 Westford St.
O'Brien, William H., Patrolman.....	13 June St.
O'Connell, John, Patrolman.....	61 Church St.
O'Connell, Michael, Patrolman.....	53 Floyd St.
O'Keefe, Cornelius T., Patrolman.....	42 Blossom St.
Page, Alonzo J., Patrolman.....	410 Westford St.
Palmer, George B., Patrolman.....	23 Eighteenth St.
Provencher, Napoleon, Patrolman.....	17 Fourth Ave.
Quinn, Henry F., Patrolman.....	45 Durant St.
Reilly, James, Patrolman.....	150 Pleasant St.
Riley, Thomas B., Patrolman.....	21 Irving St.
Ryan, Bartholomew, Patrolman.....	42 Sydney St.
Ryder, Chester E., Patrolman.....	855 Lawrence St.
Sanborn, Thomas J., Patrolman.....	126 Grove St.
Somers, Henry E., Patrolman.....	126 Mammoth Road
Sparks, John F., Patrolman.....	503 Beacon St.
Swan, Edward T., Patrolman.....	15 B St.
Tansey, Owen J., Patrolman.....	13 Bowden St.
Tilton, Herman N., Patrolman.....	57 South Walker St.
Welch, John N., Patrolman.....	491 Lawrence St.
Whelan, John T., Patrolman.....	37 State St.
Whitney, Frank H., Patrolman.....	108 D St.
Whittaker, John T., Patrolman.....	130 Tilden St.
Whitworth, James H., Patrolman.....	5 Billerica St.
Wilson, William H., Patrolman.....	17 Harrison St.
Burns, Michael J., Electrician.....	24 Fulton St.
Howard, James H., Operator.....	19 Ellsworth St.
Kilburn, James W., Patrol Driver.....	92 Shaw St.
Crowell, Albert, Patrol Driver.....	378 Rogers St.

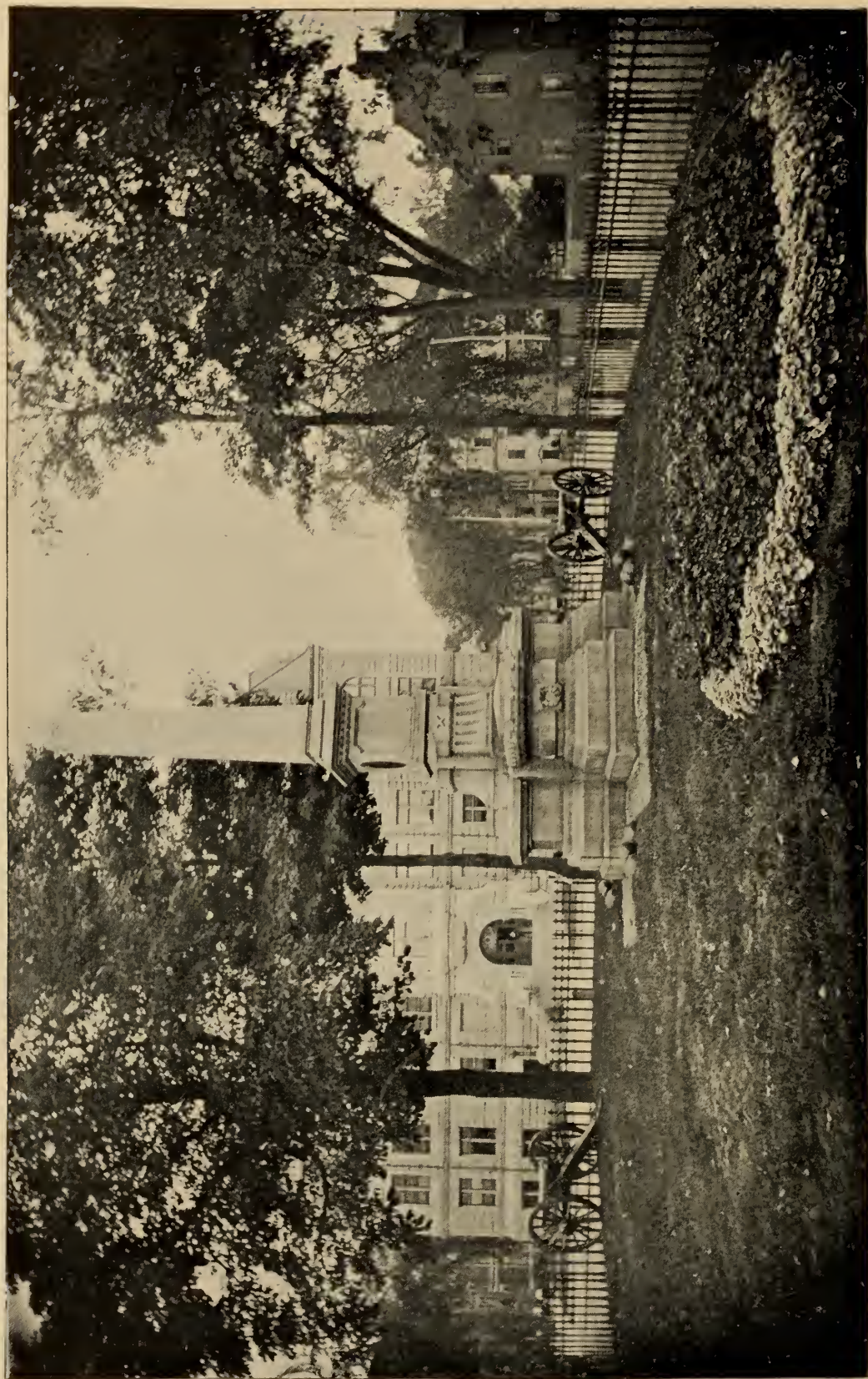
Name.	Residence.
Eagan, Richard F., Patrol Driver.....	10 Oak St.
Pinder, John J., Messenger.....	159 Broadway.
Gannon, Edward H., Hostler.....	234 High St.
Cutler, Lillie S., Stenographer.....	272 Pawtucket St.
Wallace, Margaret, Matron.....	Police Station.
Bourbeau, David, Charman.....	34 Ford St.

SUPERNUMERARIES.

Bigelow, Samuel J., Patrolman.....	960 Middlesex St.
Burke, John E., Patrolman.....	30 Abbott St.
Conroy, Patrick, Patrolman.....	102 Bourne St.
Cook, Alfred C., Patrolman.....	9 Osgood St.
Counihan, Michael J., Patrolman.....	294 Riverside St.
Cossette, Adelard, Patrolman.....	2 Gage St.
Donovan, Daniel C., Patrolman.....	42 Claire St.
Donovan, Frank J., Patrolman.....	68 Crawford St.
Giroux, Dolphin J., Patrolman.....	91 Arch St.
Kennedy, James J., Patrolman.....	101 Pleasant St.
Linane, John J., Patrolman.....	46 Blossom St.
McCloughry, Alexander, Patrolman.....	511 Bridge St., Room 8
Moore, Francis, Patrolman.....	56 Chambers St.
Murphy, Daniel F. Patrolman.....	56 Hudson St.
Roughan, Michael J., Patrolman.....	17 Pollard St.
Sheridan Gilbert W., Patrolman.....	503 Gorham St.
Sullivan, Patrick Patrolman.....	40 Mead St.







MONUMENT SQUARE. CITY HALL IN THE BACKGROUND.

Second Annual Report

OF THE BOARD

OF

Park Commissioners

OF THE

CITY OF LOWELL

FOR THE

Year ending December 31, 1904



LOWELL, MASS.,
THE LAWLER PRINTING COMPANY.

1905.

Department of Public Parks.

COMMISSIONERS' REPORT FOR 1904.

To His Honor, the Mayor, and the City Council, of the City of Lowell, Massachusetts:

As required by Chapter 28, Section 13, of the Revised Laws of Massachusetts, entitled "Public Parks, Playgrounds and the Public Domain," the Board of Park Commissioners of the City of Lowell have the honor to submit their second annual report.

Board of Park Commissioners

1904 - 1905

JOHN J. PICKMAN, 1903-1908.

JOHN E. DRURY, 1903-1907.

PERCY PARKER, 1903-1906.

THALLES P. HALL, 1903-1905.

HARVEY B. GREENE, 1903-1904.

(Re-appointed) HARVEY B. GREENE, 1904-1909.

Officers

Chairman

JOHN J. PICKMAN.

Secretary

JOHN E. DRURY.

General Superintendent

CHARLES A. WHITTET.

Consulting Engineer

GEORGE BOWERS, City Engineer.

Park Areas.

The Rogers Fort Hill Park.....	34.40	Acres
The South Common.....	22.48	“
The North Common	11.39	“
Tyler Park.....	1.81	“
Belvidere Park... ..	1.77	“
Mt. Vernon Park.....	0.50	“
Varnum, Park.....	0.135	“
Monument Square.....	0.092	“
Penniman Square	0.023	“
Lincoln Square.....	0.016	“
Total	72.616	



A VIEW OF THE EASTERLY SIDE OF THE MAIN ENTRANCE TO THE ROGERS FORT HILL PARK.

Report

OF THE

Park Commissioners of the City of Lowell for the Year 1904

The second annual report to the city council is herewith submitted.

In pursuance of the policy adopted last year a portion of the appropriation placed to the credit of the Commission was expended for permanent improvements in the parks and commons.

Early in the season Frederick Law Olmsted, of the firm of Olmsted Bros., Landscape Engineers, was employed by the Commission to visit the parks and commons in the city with the view to make recommendations concerning their laying out and their use, and to furnish plans and sketches embodying the same. A report in writing was made by Mr. Olmsted, and plans were made by him that are on file in the office of the Commission. Much of the work that has been done this

year, and that is to be done in the future, will be in conformity with the recommendations and plans referred to.

The conditions were favorable this year for labor out of doors, and progress was made in laying out and doing the work on the South Common. The cost of ordinary maintenance is large, and it is not possible to expend a large amount of money each year for improvements, but it is possible to do something each season to carry out the plans for improvements that have been adopted.

The policy of the Commission has been to secure the best talent that could be obtained to aid it in the determination of the method of doing the work, and to do something each year in conformity with the plan agreed upon.

In laying out the public grounds of the city there should be a difference in their mode of treatment, whether they be adapted for playgrounds or places of rest, free from noise, or for the display of flowers and shrubs, should depend upon their location, their area, their contour, and upon other considerations.

When the Commission entered upon the discharge of its duties, there was not sufficient accommodation for the stabling of the horses and for housing the plant of the department. This year the building formerly used by the street railway company for a stable, on Lenox street, was

hired by the Commission, and ample facilities are now afforded for the stabling of the horses, and for the storage of the plant of the department. The amount of the appropriation placed to the credit of the park department for the current year is \$12,000.00, and the amount expended, was, \$12,095.86.

THE ROGERS FORT HILL PARK.

Mr. Olmsted submitted to the Commission an advisory report concerning the laying out of the tract of land to the left of the entrance to the park. Pond lilies and aquatic plants were planted in the pond, and the result warranted the experiment. A number of flower beds were laid out and planted on the land at the left of the entrance to the park. On the west side of the hill near the top a tract of land has been ploughed, the rocks removed, and it will be sown with grass seed next year. At the foot of the hill on the west side work has been begun for making a nursery for trees from which they may be transplanted to the parks when needed. Waste baskets have been placed in this park, and in several of the other parks of the city.

SOUTH COMMON.

The work begun last year was continued the present season, and will probably be concluded

next year. A playground for children has been laid out, and it will be supplied with apparatus of simple construction that can be used without the necessity of a care-taker. A baseball diamond will be laid out and completed, and a system of sub soil drainage constructed to keep the ground in good condition during the playing season.

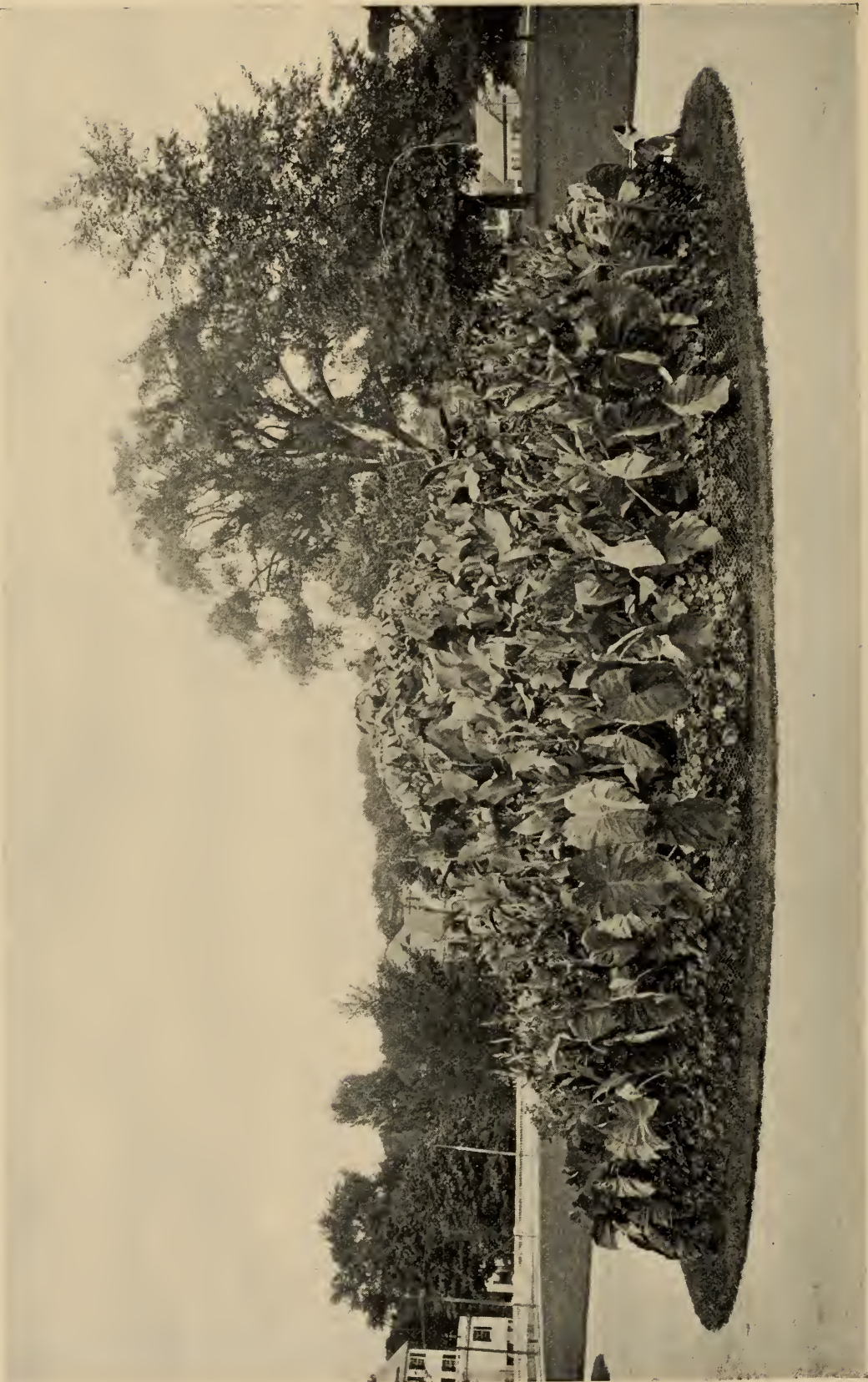
A large amount of filling will be required to carry out the plan, and earth is now upon the common ready for use next spring. A portion of the common has been ploughed and sown with grass seed, and next year more work of the same kind will be done. The walk on the South street side of the common has been completed, and a walk has been laid out on the north or Summer street side from Union street to Favor street. The work on this common will be substantially completed next year.

NORTH COMMON.

This common from its location, its contour, and its area, is well adapted for athletic sports. A large amount of earth for filling has been obtained and is available for use to carry out the plan for improvements to make it adapted for baseball and other out-door games.

MT. VERNON PARK.

A large flower bed has been planted in this park, and a drinking fountain has been located near the Durant street entrance.



FLOWER BED AT THE ROGERS FORT HILL PARK.

TYLER PARK.

In pursuance of the recommendation of Mr. Olmsted a number of trees have been removed from this park thereby permitting of the better growth of the trees remaining. A flower bed has been planted.

TREES.

The General Court of the Commonwealth this year passed an Act, Chapter 188 of the Acts of 1904, whereby the Park Commissioners of this city were vested with the power and authority, with respect to the trees, that were formerly in the mayor and board of aldermen and surveyors of the highways of the city. Upon the passage of the Act a large number of applications were made to the Commissioners for the removal of dead or decaying trees, and in many instances for the removal of trees that were deemed a menace to health by reason of their nearness to dwelling houses and the superfluity of shade caused by reason of their being planted too closely. The applications were referred to a sub-committee of the Commission who examined the trees and made a report to the board. In addition to the application for removal there were many requests to trim trees; about forty trees were removed and one hundred fifteen trees were trimmed. There remains a large amount of work to be done, and it is believed that an appropriation sufficient for the purpose will be made by the city council next year. The appropriation made for the current

year was \$1,000.00. A portion of the appropriation was expended for the purchase of tools and appliances necessary to be obtained to do the work properly. Rules and regulations relating to the care of trees have been adopted by the board, similar in substance to those in other large cities.

BROWN TAIL MOTH.

There is danger of injury to the trees in the city and its vicinity, and a possible danger to the public health from the caterpillars hatched from the eggs of the brown tail moth that are in the nests that infest the trees in all parts of the city. In mid-summer the moths were here in great number, and as a result of their visitation are the nests that must be destroyed if the brown tail moth peril is to be averted. Early last fall upon the invitation of Mr. Whittet, the superintendent of parks, Mr. A. H. Kirkland, the entomologist and a leading authority upon the moth, visited Lowell, and made an examination of the trees to learn to what extent the trees were infested, and afterwards appeared before the Commission, and as the result of his investigation stated that the nests were to be found in all parts of the city, and advised that prompt and energetic action be taken to destroy the nests. Acting upon this information, the Commission instructed its chairman to wait upon the mayor and to report to him the conditions existing, and to request him to

take such action as he saw fit to inform the city council of the advisability of providing means to destroy nests in the trees under the control of the Commission, and of informing the public of the necessity that prompt and energetic action be taken to remove nests from trees growing upon private lands.

In pursuance of the instructions the mayor was seen, and he promptly sent a communication in writing to the city council. An appropriation has not yet been made by the city council. Pending action by the council the superintendent of parks has been active and efficient in his efforts to arouse the public to the necessity of action being taken by land owners and by their tenants to destroy the nests in the trees upon their lands.

The thanks of the community are due to Mr. A. K. Whitcomb, the superintendent of schools, Prof. Clarence H. Weed of the State Normal school of this city, and Wm. P. Atwood of this city, and to members of the Middlesex Woman's Club, for the valuable assistance rendered by them in their efforts to inform the public concerning the moths. It may reasonably be expected that the city council will speedily provide the means to enable the Commission to destroy the moths on the trees in the public streets and parks in the city, and to enable it to co-operate with the citizens in their efforts to remove and destroy the nests in trees upon private lands.

A detailed statement of the receipts, expenditures and liabilities is herewith appended.

The report of the superintendent to the Commission is also submitted herewith.

Respectfully submitted,

JOHN J. PICKMAN,
JOHN E. DRURY,
PERCY PARKER,
THALLES P. HALL,
HARVEY B. GREENE,
Park Commissioners.

Financial Report

LOWELL, DECEMBER 31, 1904.

TO HIS HONOR THE MAYOR AND THE CITY COUNCIL OF
THE CITY OF LOWELL, MASS.

Gentlemen:

The Board of Park Commissioners has the honor to submit herewith the second annual report of the Park Department of the city for the fiscal year ending December 31st, 1904. In presenting to you this report we have given a statement of the receipts and expenditures for the fiscal year, the financial condition of the several appropriations, the Superintendent's report to this department of the work and labor done in the Parks of the city.

Original appropriation for labor.....		\$9,000 00
Additional appropriation for labor...		1 38
		<hr/>
Expended for labor.....	\$8,551 38	
Transferred to sundries.....	450 00	\$9,001 38
	<hr/>	<hr/>
Balance.....		
Original appropriation for sundries..		\$3,000 00
Transferred from labor to sundries.		450 00
Received from appropriation for care of City Hall.....		12 49
Received from appropriation for Care of Trees, Teaming.....		82 10
		<hr/>
		\$3,544 59
Expended for sundries.....	\$3,544 48	3,544 48
	<hr/>	<hr/>
Balance.....		11

We received from the rental of lots on the South Common on July 4th, the sum of \$1,072.00 which was paid into the General Treasury Fund of the City.

NAME.	MAINTENANCE.		IMPROVEMENT.		TOTAL.
	LABOR.	MATERIALS AND SUPPLIES	LABOR.	MATERIALS AND SUPPLIES	
Fort Hill Park	\$2,042 22	\$ 301 50	\$ 819 28	\$103 41	\$3,266 41
South Common	1,196 71	5 77	1,455 12	837 76	3,495 36
North Common	782 07	10	164 47	3 15	949 79
Tyler Park	162 65	39 64	105 70	1 50	309 49
Varnum Park	26 15	12 29	.....	.....	38 44
Belvidere Park	177 13	28 33	28 10	8 00	241 56
Mt. Vernon Park	54 38	18 60	5 75	93 36	172 09
Penniman Square	1 97	.....	.....	.....	1 97
Cross Street Barn and Work- shop	80 09	16 20	.....	.....	96 29
Lenox Street Barn and Work- shop	199 58	1,674 01	.....	.....	1,873 59
Monument Square	21 14	19 02	.....	.....	40 16
Water Works Square .....	.....	.....	4 16	2 00	6 16
Lincoln Square .....	.....	.....	24 75	22 75	47 50
Superintendent's Salary and Office Expense	1,199 96	323 19	.....	.....	1,523 15
Bills contracted in 1898 and 1902 .....	.....	33 90	.....	.....	33 90
	\$5,944 05	\$2,472 55	\$2,607 33	\$1,071 93	\$12,095 86

BALANCE SHEET.

DR.		CR.	
Fort Hill Park....	\$3,266 41	Appropriation ...	\$12,000 00
South Common....	3,495 36	Sundry Receipts..	95 97
North Common....	949 79		
Tyler Park.....	309 49		
Varnum Park.....	38 44		
Belvidere Park....	241 56		
Mt. Vernon Park..	172 09		
Penniman Square..	1 97		
Cross St. Barn and Workshop.....	96 29		
Lenox St. Barn and Workshop	1,873 59		
Monument Square.	40 16		
Water Works Sq...	6 16		
Lincoln Square....	47 50		
Supt. Salary and Of- fice Expenses.	1,523 15		
Bills Contracted in 1898 and 1902.	33 90		
Balance.....	11		
	<hr/>		<hr/>
	\$12,095 97		\$12,095 97

TO WHOM AND FOR WHAT MONEY WAS PAID OUT DURING THE YEAR.

JANUARY.,

To Whom	For What	Amount
Owen J. Carney	shoeing	\$ 6 75.
E. P. Flanders & Co.	steel snow shovels	\$ 4 00
T. H. Lawler	office supplies	3 00

To Whom	For What	Amount
Charles A. Whittet	railway expenses	1 00
J. H. Laporte	harness repairing	40
F. B. Hill & Co.	repairing	3 65
N. E. Tel. & Tel. Co.	telephone	5 25
Street Department	board of horses	35 43
Total		<hr/> \$59 48

FEBRUARY.

To Whom	For What	Amount
Owen J. Carney	shoeing	\$ 2 75
N. E. Tel. & Tel. Co.	telephone	5 26
G. C. Prince & Son	subscriptions to Country Life, and Park and Cemetery	4 00
Thompson Hardware Co.	hardware	1 00
Tilton & Co.	office supplies	1 75
Adams Hardware and Paint Co.	paint brushes	1 90
Robertson & Co.	repairing oil stove	50
C. N. Rice & Son	filig saw	15
Street Department	board of horses	22 28
H. H. Wilder & Co.	making gal. iron pan	2 50
Donovan Harness Co.	harness oil	1 50
Pratt & Forest	lumber	12 15
E. P. Flanders & Co.	hardware	1 60
Boutwell Bros.	iron and bolts	1 48
F. W. Cheney & Co.	tools	12 30
Butterfield Printing Co.	printing	7 00
Total		<hr/> \$78 11

MARCH.

To Whom	For What	Amount
Fred E. Jones	horse	\$165 00
E. P. Flanders & Co.	bolts	1 12



SOUTH COMMON, SHOWING PLAYGROUND.

To Whom	For What	Amount
Pratt & Forrest	lumber	\$ 15 63
American Express Co.	express	25
N. E. Tel. & Tel. Co.	telephone	5 25
C. B. Coburn & Co.	paint	1 50
G. C. Prince & Son	postage stamps	22 00
C. N. Rice & Son	filing saws	50
Adams Hardware and Paint Co.	deep sea line	9 63
Charles E. Gee	sharpening lawn mowers	31 95
James Welch	soapine and brush	25
Butterfield Printing Co.	printing report	206 14
Street department	board of horses	17 67
J. H. Laporte	repairing harnesses	14 55
Total		<hr/> \$491 44

APRIL.

To Whom	For What	Amount
E. P. Flanders & Co.	hardware and tools	\$ 15 20
J. H. Laporte	repairing harness	2 20
Keeffe & Horan	clipping horse	2 00
Engineering Department	services	56 83
Sampson, Murdock & Co.	directory	3 00
Cahill Bros.	shoeing	4 80
Dr. W. A. Sherman, V. S.	professional services	1 50
Street Department	board of horses	34 29
Total		<hr/> \$ 119 82

MAY.

To Whom	For What	Amount
Farrell & Conaton	plumbing and piping	\$ 68 27
Pratt & Forrest	lumber	1 73
T. J. McDonald	salt	75
Morse Coach Co.	hacking	1 50
J. H. Laporte	repairing harness	1 20

To Whom	For What	Amount
Cahill Bros.	shoeing	\$ 6 40
A. Parsons	sharpening tools	2 30
C. B. Coburn & Co.	sponges and oil	7 80
Engineering Department	services	79 63
Follansbee's Nursery	trees	33 75
Joseph Peabody, Agt.	insurance on property	28 80
L. C. Hall	hard wood ashes	116 32
Whittet & Co.	plants	52 75
George E. Bennett	manure	2 13
Bridget Gookin	manure	2 13
Libby Printing Co.	printing	3 50
Schlegel & Fottler Co.	seeds	20
Daniel T. Sullivan	cement	2 50
George W. Trull	hay	52 50
Donovan Harness Co.	axle oil	50
Charles Dumas & Co.	corn, oats, meal and shorts	40 60
W. A. Mack & Co.	galv. pail and dippers	90
E. P. Flanders & Co.	hardware and tools	69 71
Total		<hr/> \$575 87

JUNE.

To Whom	For What	Amount
Charles Crevier	blacksmithing	\$ 1 00
Charles A. Whittet	railway expenses	1 04
C. H. Hanson & Co.	team hire	9 00
F. B. Hill & Co.	carriage work	1 50
Boston & Northern St. R. R.	rent	12 50
Union Iron Foundry	seat castings	62 30
Adams Hardware & Paint Co.	glass, putty, etc.	3 38
C. N. Rice & Son	fitting keys	70
R. J. Haight	Park and Cemetery	1 00
N. Y., N. H. & H. R. R.	freight from Chicago	1 28
L. W. W. Dept.	Nash meter and labor	26 46
M. J. Cahill	shoeing	2 30
H. R. Barker Mfg. Co.	drilling brackets	8 75

To Whom	For What	Amount
Farrell & Conaton	repairing fountain	\$ 3 69
John J. Donnelly	shoeing	2 65
B. & M. R. R.	freight	17 50
Boutwell Bros.	wrenches	50
Farrell & Conaton	drinking fountain	60 00
Schlegel & Fottler Co.	seeds	30
The Steel Basket Co.	B. P. park baskets	15 00
William H. Wiggin	lumber	100 06
Owen J. Carney	shoeing	2 25
T. J. McDonald	oats	\$ 28 90
Daniel T. Sullivan	lime	1 50
Talbot Dyewood & Chemical Co.	saltpetre	1 00
C. F. Keyes & Co.	plough	4 25
C. H. Hanson & Co.	roan mare	166 80
P. Conroy	manure	25 31
	Total	<hr/> \$ 560 92

JULY.

To Whom	For What	Amount
Boston & Maine R. R.	freight	\$ 24 85
J. H. Laporte	repairing harness	3 65
Whittet & Co.	plants	288 44
F. B. Hill & Co.	repairing	14 85
Butterfield Printing Co.	printing	3 00
Farrell & Conaton	repairing drinking fountain	1 25
A. W. Lewis	electric wiring	53 95
B. & N. St. R. R.	rent	25 00
Sewer Department	B. S. and Concord grates	22 00
E. P. Flanders & Co.	hardware and tools	27 65
Daniel T. Sullivan	brick and cement	27 60
Joseph Mullin	oats	27 85
Alphonse Bibeault	gravel	23 85
Edward Cawley	drain pipes	36 80

To Whom	For What	Amount
F. M. Bill & Co.	stable brooms	\$ 3 75
Burton H. Wiggin	loam	1 50
Owen J. Carney	shoeing	2 25
Carroll Brothers	fountain dippers	4 00
C. N. Rice & Son	keys	20
H. R. Barker Mfg. Co.	building iron fence	80 13
F. B. Hill & Co.	new wheels & paint- ing team	32 00
M. J. Cahill	shoeing	3 75
John J. Donnelly	shoeing	3 80
Total		<hr/> \$712 12

AUGUST.

To Whom	For What	Amount
C. N. Rice & Son	key	\$ 0 15
Owen J. Carney	shoeing	2 75
Sherman & Martin	gravel	42 35
F. B. Hill & Co.	repairing team	10 05
Livingston Grain Co.	oats	39 24
John J. Donnelly	shoeing	2 65
M. J. Cahill	shoeing	3 75
Thompson Hardware Co.	paint	2 52
Fred A. Fox	hay	26 50
George Bowers	expense of entertaining landscape engineer	2 15
Total		<hr/> \$132 11

SEPTEMBER.

To Whom	For What	Amount
H. E. Noyes & Son	oats, corn and meal	\$43 70
F. B. Hill & Co.	repairs on Concord	35
Joseph Mullin	oats	60
Patrick Conroy	manure	5 32

To Whom	For What	Amount
Fred A. Fox	hay	\$35 45
E. P. Flanders & Co.	lawn grass seed	7 00
Charles T. Clifford	manure	13 50
John J. Donnelly	shoeing	2 65
Lowell Electric Light Cp.	lighting stable	2 06
M. J. Cahill	shoeing	1 20
Appro. for Water Works	water at stable	3 78
Boston & Northern St. Ry. Co.	rent	12 50
Total		<hr/> \$128 11

OCTOBER.

To Whom	For What	Amount
F. B. Hill & Co.	cart repairing	\$11 65
J. H. Laporte	harness repairs	2 60
American Express Co.	express	90
E. P. Flanders & Co.	hardware and tools	5 25
Boulger Shoe Co.	rubber boots	4 25
Boston & Northern St. Ry. Co.	rent	12 50
O. D. Wilder	oats and corn	25 32
M. J. Cahill	shoeing	3 75
Lowell Electric Light Cp.	light	1 25
The Reading Nursery	shrubs	20 00
Donovan Harness Co	robe and street blankets	18 00
John J. Donnelly	shoeing	3 55
N. E. Tel. & Tel. Co.	telephone service	10
Owen J. Carney	shoeing	2 25
Total		<hr/> \$111 37

NOVEMBER.

To Whom	For What	Amount
E. P. Flanders & Co.	hardware and tools	\$5 66
Joseph Mullin	oats and corn	\$ 30 87

To Whom	For What	Amount
P. O'Hearn	filling	\$116 60
Boston & Northern St. Ry. Co.	rent	12 50
J. J. McManmon	bulbs	100 75
C. B. Coburn Co.	glass	2 22
M. J. Cahill	shoeing	4 00
John J. Donnelly	shoeing	4 65
Dr. W. A. Sherman	prof. service	2 00
Lowell Electric Light Cp.	light	2 37
George W. Trull	hay	40 00
Livingston Grain Co.	oats and corn	26 73
H. H. Wilder & Co.	stove pipe	7 31
Total		<hr/> \$355 66

DECEMBER.

To Whom	For What	Amount
P. O'Hearn	sand	\$ 3 15
Paul Vigeant & Co.	straw	15 21
E. P. Flanders & Co.	hardware and tools	20 22
H. H. Wilder & Co.	stove pipe	1 25
Pratt & Forrest	lumber	23 80
F. B. Hill & Co.	iron work	4 00
A. N. Harmon	picture framing	2 70
Dumas & Co.	binding books	4 75
Colonial Press	Suburban Life	1 00
Boston & Northern St. Ry. Co.	rent	25 00
John J. Donnelly	shoeing	5 05
M. J. Cahill	shoeing	2 00
J. H. Laporte	repairing harness	2 50
C. B. Coburn Co.	paints and brushes	3 13
Lowell Electric Light Cp.	light	2 95
A. C. Wheelock	doors and windows	7 00
Joseph Mullin	coal	7 72

To Whom	For What	Amount
G. W. Trull	hay	\$ 20 85
J. C. Bennett	paints and oil	26 09
Donovan Harness Co.	blankets, sponges, polish	7 20
Total		<u>\$ 185 50</u>

LABOR AND SALARY PAY ROLL FROM
JANUARY 1, TO DECEMBER 31, 1904.

January,	Pay Roll No.	1, 2, 3, 4,	\$ 383 04
February,	" "	5, 6, 7, 8,	327 09
March,	" "	9, 10, 11, 12,	294 37
April,	" "	13, 14, 15, 16, 17,	554 00
May,	" "	18, 19, 20, 21,	795 29
June,	" "	22, 23, 24, 25,	1,076 26
July,	" "	26, 27, 28, 29, 30,	1,160 98
August,	" "	31, 32, 33, 34,	735 70
September,	" "	35, 36, 37, 38,	949 86
October,	" "	39, 40, 41, 42, 43,	730 32
November,	" "	44, 45, 46, 47,	624 58
December,	" "	48, 49, 50, 51, 52,	919 89
Total			<u>\$ 8,551 38</u>

MONTHLY EXPENDITURES.

MATERIAL AND SUPPLIES.

January	.	.	.	.	.	.	.	\$ 59 48
February	.	.	.	.	.	.	.	78 11
March	.	.	.	.	.	.	.	491 44
April	.	.	.	.	.	.	.	119 82
May	.	.	.	.	.	.	.	575 87

June	.	.	.	.	.	.	.	.	\$560 92
July	.	.	.	.	.	.	.	.	712 12
August	.	.	.	.	.	.	.	.	132 11
September	.	.	.	.	.	.	.	.	128 11
October	.	.	.	.	.	.	.	.	111 37
November	.	.	.	.	.	.	.	.	355 66
December	.	.	.	.	.	.	.	.	185 57
Unsettled bills contracted in 1898 and 1902	.								33 90

Respectfully submitted,

JOHN E. DRURY,

Secretary.



SOUTH COMMON, SHOWING THE SOUTH STREET MALL.

General Superintendent's Report

LOWELL, MASS., January 1, 1905.

TO THE PARK COMMISSIONERS.

Gentlemen :

I have the honor to submit to you my second annual report, which gives a complete account of the work performed by the Park Department under the direction of your Board during the past fiscal year ending December 31st, 1904, including a few comments and suggestions which I hope will not be considered inappropriate. While it has been my desire and aim to not only maintain creditably and acceptably the parks and commons composing this department, the amount of the appropriations, and the manner in which they are made, preclude the possibility of many changes or improvements of any magnitude.

Our parks and commons are susceptible to great improvements whereby their attractiveness would be essentially enhanced, and their usefulness consequently increased.

We began the first of January with an appropriation of \$12,000.00 to our credit for labor and sundries. We have paid for labor \$8,551.38, and for general expenses

\$3,544.48, and have a balance of \$0.11 to the credit of the general treasury. During the spring we received a donation of plants for the parks from Commissioner Harvey B. Greene, and from Messrs. Whittet & Co. In this, as in all respects, our parks offer an especial field for gifts.

I believe that the park and school boards should work unitedly; there is no class of buildings which should be more carefully designed and placed, with reference to their environments, than our schools and educational institutions.

It is pleasing to note that an interest is developing in the planting of school house grounds. In the town of Brookline, Mass., beautiful effects have been produced by the planting of masses of shrubbery against the boundary fences of the school yards and at the fronts of the buildings, the open places being turfed. Trees have also been planted to shade the walks and creepers planted against the walls of school buildings. During the past year the city of Boston has planted trees and shrubbery in the grounds of seven of its new schools. It is a step in the right direction; why cannot our city do something to beautify its schools and school grounds?

Pupils of the schools so adorned cannot but be benefitted by the influence of nature so attractively and constantly set before their eyes. Now that nature studies have become a part of the curriculum of almost every school the planting of trees, shrubs, and flowers in the school grounds gives material close at hand for practical demonstrations and for identification and botanical study; but pre-eminently calling in the aid of horticulture makes the school house and grounds homelike and attractive, awakening in the children an interest in nature at a time when the mind is receptive of artistic influences.

In Detroit, Mich., they have a teacher of zoology for the purpose of teaching the children the common and zoological names of birds and animals. And they have secured the services of a botanical teacher to teach them

the common and botanical names of the shrubs and trees in their parks.

The growth of public interest in the improvement of the external conditions of life in our cities and towns is remarkable, and the most casual observer must note with satisfaction the progress made in the last decade. Education is being more widely diffused, and education leads to refinement. We cannot now endure, as in days gone by, treeless streets, crude and inappropriate architecture and makeshift efforts to tide things over to the future. Education has shown us that man needs good food for his intellectual and artistic nature, as well as for his physical senses, and to fill a part of this need requires that his surroundings shall be in keeping with the growth of intelligence. The setting aside and securing possession of beauty spots, historical and picturesque, the organization of art commissions for the embellishment of their cities, and many similar steps are manifestations of the spirit of out-door improvement. That such a movement should have begun, and that it should be growing rapidly, is cause for rejoicing.

It seems to me that few people fully realize the value of parks for children, and above all for the children of the poorer classes. The rich man has his summer residence by the seashore or in the mountains, but think of the great mass of the laboring population whose children are growing up to fill the places of the present population, and many of whom may be rich men and the rulers of the future. Can any one doubt the value of parks in the education of children who are born and bred in the crowded tenement-houses which are the (so-called) homes of thousands of the inhabitants of every city?

A park, to the child of the tenement, means more than recreation; it means re-creation,—the new birth of beauty, of life, form, and color. At the formative period of the child, when character is easily moulded, and the mere natural beauty of the park is of value, these

characteristics may be enhanced many times if the park is provided with a playground.

The greatest need of our American cities today is opportunity for recreation, either of mind or body. Where, except in a public park, is there room for this wholesale recreation of children? Is it possible in any other place, or in any other way, to provide so much substantial, rational, and thorough enjoyment at so trifling a cost?

Mr. William W. Folwell says: The old farm, as it existed fifty years ago in the Eastern and Middle States, was the best of places for the evolution of boys and girls into independent, self-reliant men and women. But a change has come. Cities are very big and very many. The country is changed, the woods have been cleared off, the creeks in many instances dried up, the cultivated fields are surrounded by, and the lanes and roads are lined with, the detestable barbed wire fence.

Take from the child his play, and from the boy his sports, and you rob him of the best means of healthy growth, physical and moral. Some forms of vice thrive only in the absence of wholesome, bracing sports. Every place of education, then, should have its spaces and appliances for games and sports. Look at our colleges and universities, there is no occasion to exhort their students not to ruin their constitutions by neglecting physical exercise. The athletic craze which has been sweeping through their halls, although much overdone, is working a great and needed reform in those institutions.

The question is frequently asked, in perfect good faith, "what is the use of parks?" The use of public parks is to promote the well-being and happiness of the people, to alleviate the hard conditions of crowded humanity, to encourage out-door recreations and intimacy with nature, to fill the lungs of tired workers from the factories and shops with pure and wholesome air, wherever they will or can afford to spend a day under the

spreading trees and upon the spacious lawns. They are the havens of sweetness and rest for mothers and wives and sweethearts; above all, they are for the children; for all the people, high and low, rich or poor, without distinction with equal rights and privileges for every class.

A city that does not now acknowledge the necessity for public parks as a means for promoting the welfare and happiness of its people, and recognize the substantial advantages that follow the making of a city attractive and comfortable as a place of residence, is not progressing, but is already on the wane.

The parks themselves are great civilizers; they are great equalizers. They lift the people to a higher life; they are educational; they are full of inspiration—and make life worth more to every man, woman, and child who comes to enjoy them. Whichever way you turn, whether from an economical standpoint or from that of health or pleasure, the hand of every citizen should be lifted in favor of the parks. They are to be the people's heritage for all the time to come.

In all our cities there are men of large means. Often it is a question with them as to how, at the close of life, their accumulations may be left so as to do the most good to their fellow-men. There are many great-hearted, grand-minded men whose attention once turned to the value of parks as educators or even as monuments to carry their names down the ages would willingly either give or purchase for the people of the cities where they have made their fortunes, lands for park purposes. Certainly nothing is as undying as the name of a man associated with a large public park in or near a city. It is as enduring as the land itself, it falls from year to year into the minds of children, and by them it is borne down from generation to generation, thus linking the donor's name with the park which he makes the heritage of the people for all time to come.

THE ROGERS FORT HILL PARK.

By reason of its peculiar advantages, the Rogers Fort Hill Park, during the hot weather, is the most popular park in our system. The cooling breezes from the river, the excellent view of the surrounding country for miles which greets one's eye, and in the distance the rugged hills and mountains of old New Hampshire, all together make Fort Hill Park one of the most valuable of Lowell's parks.

During the past season trees have been planted on the Rogers, Hanks, and High streets side of the park; the pond was planted with beautiful pond lilies and other aquatic plants, the flower beds were placed in front of the hill, which added greatly to its beauty. We have ploughed up about two acres of ground near to the top of the hill, and have removed the stone therefrom, and will seed it down in the spring.

The park in its present condition of development does not call for expensive maintenance, in fact, it never will be a very costly park to maintain, considering its size and its usefulness to a public which is most in need of such recreation grounds. The park could further be greatly improved and would be if the necessary money was available, and now would be a favorable time for it.

BELVIDERE PARK.

The only improvements during the year has been the removal of the walk leading from the centre of the park to Park street, and the filling in of the same with loam and turfing, also the placing of park baskets for waste paper. The park required only ordinary maintenance care. I would advocate the carrying out of the recommendations of Mr. Frederick Law Olmsted, as regards the improving of this park.

VARNUM PARK.

This park required only ordinary maintenance care.

MT. VERNON PARK.

A drinking fountain established in the park, and a large flower bed made in the center, are additions made to the grounds. This park is in a very fair condition and can be kept in such for some time to come within a reasonable yearly allowance for maintenance expenditures.

WATER WORKS SQUARE.

A flower bed was made in the center of this square which was greatly enjoyed by the residents of that section of the city; we are in hopes to place a neat curbing around this lot and grade it as it should be in the near future.

MONUMENT SQUARE.

This square has been kept in the usual good trim, as required by its prominent location, but the limited means available for maintenance have restricted the execution of certain repairs, which should receive attention this coming season. The old fence should be removed and a neat fence about three feet high erected in its place, the two trees should be removed and the lot re-graded.

NORTH COMMON.

This common is well located in a populous district. Little has been done towards its improvement, base-ball diamonds should be laid out, and play grounds should be constructed for the children. It is a place which is well used and merits improvement; we have had deposited on this common an amount of dirt to be used next spring in improving this common.

LINCOLN SQUARE.

This square has been regraded and returfed, and a hedge of *Berberis Thunbergii* planted around the square which greatly improves its looks.

PENNIMAN SQUARE.

This square required only ordinary maintenance care.

SOUTH COMMON.

A large amount of work has been done on this common this year; a large strip of ground has been ploughed up, well manured, re-graded, and sown down. A broad walk on the South street side between the two rows of elm trees has been laid out and a space of 15 feet on each side has been re-turfed from the Union street walk to Summer street, on the Summer street side from South street to the Favor street walk. A large strip of ground near to the South street side has been



PAWTUCKET STREET, TREES DISFIGURED BY LINEMEN.

well drained and filled up and laid out as an open air gymnasium and playground; we hope to equip the ground with apparatus next season. We intend to finish the improving of this common next season; over 2000 loads of filling has been dumped on the common to be used in regrading; grading will be commenced as early as possible in the spring, so that the ball field can be used in the early summer.

TYLER PARK.

A number of trees which were crowding other and better trees were removed, and a large flower bed placed in the center of the square.

If the means were available, I would suggest the proper ploughing, seasoning, grading, and seeding of certain coarse and unproductive sections of this park, also the improving of the rockery and the planting of shrubs

CONCLUSION.

In closing my report I wish to express to the members of the Board of Park Commissioners my fullest appreciation for their support and their good-will, and wish to thank my assistants of the department for the efficient service rendered, making it possible to accomplish all that has been done.

Respectfully submitted,

CHARLES A. WHITTET,

General Superintendent.

Financial Report

LOWELL, December 31, 1904.

TO HIS HONOR, THE MAYOR, AND THE CITY
COUNCIL OF THE CITY OF LOWELL, MASS.

Gentlemen:

We have the honor to submit to you a report of the expenditures of the department of Parks, of the appropriation for the care of trees, from July 1, 1904, to December 31, 1904.

Original appropriation	.	.	.	\$ 500 00
Receipts	.	.	.	3 25
Additional appropriation	.	.	.	500 00
			Total	<u>\$ 1003 25</u>
Expended for labor and teaming			\$533 68	
Expended for equipment and supplies			466 31	
			<u> </u>	999 99
Balance unexpended				<u>3 26</u>

LABOR PAY ROLL FROM JULY 1, TO
DECEMBER 31, 1904.

July,	Pay roll No.	1, 2, 3, 4, 5,	\$ 176 18
August,	" "	6, 7, 8, 9,	147 18
September,	" "	10,	2 34
October,	" "	11, 12,	94 02
November	" "	13,	7 62
December,	" "	14, 15, 16,	24 24
Total			\$ 427 38

MONTHLY EXPENDITURES.

LABOR AND SUPPLIES.

July	.	.	.	.	.	\$340 14
August	.	.	.	.	.	206 84
September	.	.	.	.	.	296 88
October	.	.	.	.	.	108 27
November	.	.	.	.	.	16 37
December	.	.	.	.	.	31 49
Total						\$ 999 99

Respectfully submitted,

JOHN E. DRURY,
Secretary.

TO WHOM AND FOR WHAT MONEY WAS PAID
OUT DURING THE YEAR

FOR THE CARE OF TREES.

JUNE.

To Whom	For What	Amount
Courier-Citizen Co.	printing	\$ 7 50
Thompson Hardware Co.	rope	6 16
C. F. Keyes & Co.	square wagon	46 00
Total		<hr/> \$ 59 66

JULY

To Whom	For What	Amount
Adams Hdw. & Paint Co.	tools	\$ 10 50
J. C. Bennett	ladders	35 45
C. B. Coburn Co.	manilla rope	17 16
E. P. Flanders & Co.	tools	60 75
F. B. Hill & Co.	ironing stump puller	6 85
James F. Mooney	repairing	2 50
A. Parsons	sharpening tools	2 70
Pratt & Forrest	making spanish windlass	1 25
C. N. Rice & Son	sharpening saws	2 80
Total		<hr/> \$ 139 96

SEPTEMBER.

To Whom	For What	Amount
Adams Hdw. & Paint Co	log chains	\$ 16 00
J. C. Bennett	ladder dogs	2 00
Boutwell Bros.	wedges	2 84
C. B. Coburn Co.	manilla rope	9 18
E. P. Flanders & Co.	tools	8 10
H. L. Gonzales	sharpening saws.	1 50
F. B. Hill & Co.	heavy jigger	200 00
A. Parsons	sharpening tools	2 20

To Whom	For What	Amount
C. N. Rice & Son	sharpening saws	55
Thompson Hardware Co.	pully blocks	5 12
Charles A. Whittet	money paid out for railway fares and telegrams	1 95
	Total	<hr/> \$ 249 44

OCTOBER.

To Whom	For What	Amount
E. P. Flanders & Co.	tools	\$ 3 25
H. L. Gonzales	sharpening saws	1 25
	Total	<hr/> \$ 4 50

NOVEMBER.

To Whom	For What	Amount
E. P. Flanders & Co.	tools	\$ 3 75
H. L. Gonzales	sharpening saws	1 75
	Total	<hr/> \$ 5 50

DECEMBER.

To Whom	For What	Amount
Adams Hdw. & Paint Co.	tools	\$ 1 25
E. P. Flanders & Co.	step ladder	3 50
H. L. Gonzales	sharpening saws	1 25
Butterfield Printing Co.	printing	1 25
	Total	<hr/> \$ 7 25

Shade Trees

In the early part of January of the present year Hon. Charles E. Howe, Mayor of the City of Lowell, and others petitioned the Legislature that certain powers be transferred from the Aldermen and Surveyors of highways of the City of Lowell to the Park Commissioners of said city. And the following Act was passed and signed by the Governor in the early part of June.

COMMONWEALTH OF MASSACHUSETTS.

In the Year One Thousand Nine Hundred and Four.

AN ACT

To transfer to the Park Commissioners of the city of Lowell all the Powers that are now vested by Law in the Board of Aldermen and Surveyors of Highways in relation to Trees and Shrubs.

- 1 Section 1. All the powers and authority
- 2 vested by law at the time of the passage of this
- 3 act in the mayor and board of aldermen and



FORT HILL AVENUE, THE RESULT OF NEGLECT.

4 surveyor of highways of the city of Lowell in
5 respect to trees and shrubs now or hereafter
6 planted or growing in the streets, roads, squares,
7 courts, parks, public gardens and other public
8 enclosures in said city, except trees and shrubs
9 on grounds controlled by the Lowell water board,
10 are hereby transferred to and vested in the park
11 commissioners of said city, who shall have ex-
12 clusive powers to act in respect to setting out,
13 planting, care, maintenance, removal, cutting and
14 trimming of such trees and shrubs.

1 Section 2. This act shall take effect upon its
2 passage.

On September 6, 1904, the following rules and regulations were adopted by the Board of Park Commissioners:

1. No root or branch of any tree shall be cut, broken or otherwise disturbed or interfered with in any way by any individual or any officer or employee of a public or private corporation until the same shall have been examined and a permit issued from this Board.

2. It shall not be lawful to attach any guy rope, cross-bar, cable or other contrivance to any tree, or to use the same in connection with any banner, transparency or any business purpose whatever, except under a permit from this Board.

3. Requests for removal or trimming of trees must be made upon blanks furnished by the Board of Park Commissioners, and must state the size of the lot in front of which the work is to be done, the kind of trees to be trimmed or removed, and the kind and condition of the nearest tree upon the adjoining property.

4. Trees planted in the streets of the City of Lowell shall not be less than 35 feet apart and as much further apart as may be directed by the Superintendent of Parks, for the different varieties of trees.

5. No person shall put up or affix in any manner any placard, notice or bill, either written or printed, upon any tree in any street or public place without the consent of this Board.

6. No person shall fasten any horse or other animal to any tree or tree guard in any street or public place.

7. Any person violating the foregoing rules and regulations shall be guilty of a misdemeanor, and shall on conviction thereof be punished by a fine not exceeding \$20.00 for each offence.

John Evelyn said that men seldom plant trees till they begin to be wise; and so it may be well to note what the wise men in the Legislature of Massachusetts have decreed as to tree planting on streets and highways.

Chapter 196, Laws of 1890. Section 1. The mayor and aldermen of cities and selectmen of towns are authorized to designate and preserve trees in highways for ornament and shade, not less than one tree in every thirty-three feet and of one inch or more.

Sec. 2. Provides for marking the trees selected.

Sec. 3. Provides that whoever injures, defaces, or destroys any designated tree shall forfeit not less than five or more than one hundred dollars.

Chap. 330, Laws of 1899. Sec. 1. Every town shall at its annual meeting for the election of town officers elect a tree warden, who shall serve for one year and until his successor is elected and qualified. He may appoint such number of deputy tree wardens as he deems expedient, and may at any time remove them from office. He and his deputies shall receive such compensation for their services as the town may determine, and, in default of such determination, as the selectmen may prescribe. He shall have the care and control of all the public shade trees in the town, except those in public parks or open places under the jurisdiction of Park Commis-



PAWTUCKET STREET, TREES CUT BY LINEMEN.

sioners, and of these also he shall take the care and control if so requested in writing by the Park Commissioners. He shall expend all funds appropriated for the setting out and maintenance of such trees. He may prescribe such regulations for the care and preservation of such trees, enforced by suitable fines, not exceeding twenty dollars in any one case, as he may deem just and expedient; and such regulations, when approved by the selectmen and posted in two or more public places in the town, shall have the force and effect of town by-laws. It shall be his duty to enforce all provisions of law for the preservation of such trees.

Sec. 2. Towns may appropriate annually a sum of money not exceeding in the aggregate fifty cents for each ratable poll in the preceding year, to be expended by the tree warden in planting shade trees in the public ways; or, if he deems it expedient, upon adjoining land, at a distance not exceeding twenty feet from said public ways, for the purpose of shading or ornamenting the same; provided, however, that the written consent of the owner of such land shall first be obtained. All shade trees within the limits of any public way shall be deemed public shade trees.

Sec. 3. Whoever, other than a tree warden or his deputy, desires the cutting or removal, in whole or in part, of any public shade tree, may apply to the tree warden, who shall give a public hearing upon the application at some suitable time and place, after duly posting notices of the hearing in two or more public places in the town and also upon the said tree; provided, however, that the warden may, if he deems it expedient, grant permission for such cutting or removal, without calling a hearing if the tree in question is on a public way outside of the residential part of the town, the limit of such residential part to be determined by the selectmen. No tree within such residential part shall be cut by the tree warden, except to trim it, or removed by him without a

hearing as aforesaid; but in all cases the decision of the tree warden shall be final.

Sec. 4. Towns may annually raise and appropriate such sum of money as they deem necessary, to be expended under the direction of the tree warden in exterminating insect pests within the limits of their public ways and places, and in the removal from said public ways and places of all trees and other plants upon which such pests naturally breed; provided, however, that when an owner or lessee of real estate shall, to the satisfaction of the tree warden, annually exterminate all insect pests upon the trees and other plants, within the limits of any public way or place abutting on said real estate, such trees and plants shall be exempt from the provisions of this section.

Sec. 5. Whoever affixes to any tree in a public way or place a play bill, picture, announcement, notice, advertisement, or any other thing, whether in writing or otherwise, or cuts, paints or marks such tree, except for the purpose of protecting it and under a written permit from the tree warden, shall be punished by a fine not exceeding fifty dollars for each offence.

Sec. 6. Whoever wantonly injures, breaks, or destroys an ornamental or shade tree within the limits of any public way or place shall forfeit not less than five nor more than one hundred dollars, to be recovered by complaint, one-half to the complainant and the other half to the use of the town.

Sec. 7. Whoever negligently or carelessly suffers a horse or beast driven by or for him, or a beast belonging to him and lawfully in a public way or place, to break down, injure, or destroy a shade or ornamental tree within the limits of said public way or place, or whoever negligently or wilfully by any other means breaks down, injures, or destroys any such tree, shall be liable to the penalties prescribed in the foregoing section and shall in addition be liable for all damages caused thereby.

TREE PLANTING ON STREETS AND HIGHWAYS.

The love of nature common to man never finds worthier expression than in the planting of shade trees. Tree planting is one of the best expressions of altruism. The man who plants trees is thinking of others rather than himself. He enables people to gratify their love of the beautiful, to enjoy better health, to become more prosperous; he makes the world better and happier.

Trees purify and cool the air, increase the value of surrounding property, and are pleasing to the eye. They should be planted along our city streets, on lawns and in parks, on schoolhouse grounds, and wherever shade or shelter may be needed.

Nothing has been found that will equal our American Elm and Hard Maple for wide roads and double rows. There are many reasons why trees should be planted in cities and villages. During the hot days of summer the streets which are shaded by trees are preferred to those which lack this protection. The temperature is much lower; and as the pavements are not exposed to the glare of the sun, there is less of reflected heat. The streets that are lined with shade trees are more attractive to the eye; and their superiority is readily apparent when compared with those on which there are no trees. The shaded streets being cooler they are more desirable for residences, and, other things being equal, property is more valuable and commands higher rents. The air is purer by reason of the foliage, which inhales carbonic acid and exhales oxygen. The leaves absorb the poisonous gases generated in hot weather by the decomposition of animal and vegetable matter, and thus an active source of disease is eliminated. During the hot summer days the diseases incidental to that season are not so prevalent in streets and localities which are protected from the heat of the sun by large overhanging trees. At a meeting of the New York Medical Society a resolution was passed in which the opinion was ex-

pressed that "one of the most effective means for mitigating the intense heat of the summer months, and diminishing the death rate among children, is the cultivation of an adequate number of trees in the streets."

The city of Washington is justly known as one of the most beautiful cities in America on account of the seventy thousand trees that adorn its streets; and there are many New England towns famed for their attractive appearance, due largely to the beautiful trees planted by village improvement societies.

In street planting care should be exercised to select species which, when fully grown, will be of a size suitable to the width of the street; and in making a choice only such should be selected as are best adapted to the peculiar conditions which influence their growth in cities. Some trees that can be safely used for road planting in the country are too susceptible to the deleterious influences of the smoke, dust, gas, and pavement of our cities.

In making a choice the first thing to be considered is the width of the street; also, the width of the sidewalk or nearness of the houses. Some trees, the Elm for instance, will injure the foundation walls of a house by the pressure from its far-spreading roots.

The following list includes all, or nearly all, the species which are desirable for street planting, most of which are quite common throughout New England. They are named in the order of their desirability, although in some instances their preferment is somewhat a matter of taste.

WIDE STREETS

American or White Elm
Hard or Sugar Maple
Tulip Tree
Basswood (Linden)
Horse Chestnut

NARROW STREETS

Norway Maple
White or Silver Maple
Red Maple
Ailanthus
Cucumber Tree



DUMMER STREET, AN UNPROTECTED TREE, BARK GNAWED BY HORSES.

WIDE STREETS

Sweet Gum
Sycamore (Buttonball)
White Ash
Scarlet Oak
Red Oak
White Oak
Honey Locust
American Chestnut

NARROW STREETS

Ginkgo
Bay Willow
Pin Oak
Red Flowering Horse Chestnut
Black or Yellow Locust
Hackberry
Hardy Catalpa (*speciosa*)
Lombardy Poplar

The Elm stands first on the list by right of its superior size, beauty, and adaptability to street planting. It is rapid in its growth, withstands transplanting and pruning better than most other kinds, and will grow on almost any soil. Its habit is such that any pruning of the lower limbs is seldom necessary, a valuable feature in a street tree.

The Hard Maple or Maple Sugar is so well and favorably known as a shade tree that it is unnecessary to dwell upon its beauty and symmetrical proportions. It is seen at its best in village streets and along country roads, where the conditions are better suited to its fullest development.

The Tulip Tree will compare favorably with the Hard Maple in height and beauty. It bears transplanting well, grows rapidly, is very hardy, and is free from destructive insects. In the latter part of May it decks itself with terminal flowers of a dark, rich yellow, streaked with green and orange.

The Basswood, or American Linden, commends itself to the lover of trees, by its ample shade, fragrant flowers, and bright green foliage, which in spring contrasts well with its dark colored branches.

The Horse Chestnut is the earliest of our trees. Before the buds have opened on many of the others, and while the willows are showing only a "green mist" the Horse Chestnut unfolds its cunningly packed leaflets to the sun, a welcome sight to those who are waiting and watching

for spring. Its large leaves afford a shade more dense than that of any other tree.

The Sweet Gum, or Liquidambar, so named from the fragrant balsam which exudes when the trunk is wounded, is an ornamental tree of about eighty feet in height and two feet in diameter, attaining in some localities a much greater size. It is a rapid grower, and thrives on almost any soil.

Of the various species of Ash, the White Ash is the best adapted for ornament and shade. Its foliage is pleasing in appearance, growing in irregular, waving masses, but without any abrupt or broken outlines. Its freedom from disease and insects commends it to all tree planters.

The Oak is a noble tree, its size and sturdy character entitling it to a prominent place in our streets and parks.

The Scarlet Oak is a desirable tree for many reasons, one of them being the crimson leaves which charm the eye long after the other trees are bare. Its foliage is unusually persistent, and in some seasons the ruddy glow of its leaves may be seen in brilliant contrast with the first snow.

The Red Oak is the most rapid in growth of all the Oaks, attains a great size, and exhibits the best proportions of any of the acorn-bearing species. It has less of the gnarled and contorted habit so characteristic of the Oaks in general.

The Pin Oak may be described as a middle-sized tree, available for roads and streets of medium width. It thrives best on moist ground. In shapely habit and general massing of foliage it will compare favorably with any of its genus, while the smooth, deeply pinnatifid leaves, bright green on both sides, add greatly to its beauty.

The White Oak is superior in vigor and longevity. It does not grow as tall as the Red Oak, but attains a

greater spread. Its russet-colored leaves are very persistent, often clinging to the tree the entire winter.

Trees may be planted in the spring or fall, preferably in the spring, before the buds open. If, through lack of information, or experience, there should be a difficulty in determining what to plant, it would be well to note the kinds that thrive best in the vicinity, and choose accordingly. In size the tree should be from two to three inches in diameter near the ground, and from ten to twelve feet high. In selecting from the nurseries, pains must be taken to select straight, thrifty specimens with clean, healthy bark, well-shaped top, and regular arrangement of branches.

In digging up a young tree the roots should be preserved as far as practical, the circular trench being at least six feet in diameter, or three feet from the stem in all directions. Any unnecessary breaking or wounding of the roots must be avoided, and all the slender root-lets should be secured as far as possible. The more earth that can be taken up with the roots the better. A solid lump is not necessary; but whatever soil clings to the roots should be retained and not allowed to fall off through jolting or careless handling.

After the trees are planted and as it grows larger and older they require pruning occasionally to remove dead limbs, to improve their shape, and, in the case of very old trees, to restore them to vigor. This work should not be entrusted to ignorant, inexperienced persons, as is often the case. Men of this class frequent our cities, and solicit employment as tree pruners. With glib tongues they describe the defects, real or otherwise, in street or lawn trees, and often obtain permission to do some work. As a result, beautiful specimens have been disfigured or irremediably injured.

Some of our best trees can be improved in appearance occasionally by trimming or cutting back in order to correct irregularities, or to attain some form better

adapted to the situation. Such work can be done without injury to the tree; but it can be undertaken safely only by a skilful, professional tree pruner.

Pruning is necessary at times, the same as surgery, and is successful only when skilfully done.

The best time for pruning is in the Fall, soon after the leaves have dropped. Trees may be pruned in the Spring with safety, but it must be done early and before there is any swelling of the buds. Whenever a branch is removed, whether a dead or a live one, it must be cut off close to and even with the trunk, no matter how large the wound. The new wood and bark will then, in time, cover the denuded space. If a branch is not cut off close to the trunk, the projecting stub soon decays, its bark falls off, and the stump remains "like a plug of decaying wood driven into the trunk;" from which the rotten mass extends rapidly to the heart of the tree.

All wounds made in pruning should be covered with coal tar or white lead to exclude the air from the raw surface. Coal or gas tar, by penetrating the pores of the wood, acts as a preservative, and at the same time prevents the inroads of fungi and insects.

It is a misery to see how our fairest trees are defaced and mangled by unskilful wood-men and mischievous borderers, who go always armed with short hand-bills, hacking and chopping off all that comes in their way; by which our trees are made full of knots, stabs, boils, cankers, and deformed branches, to their utter destruction.

In our city the trunk of every tree, whether young or old, newly planted or of full growth, should be enclosed to a proper height in wire netting of a small mesh. Unless this is done, or some similar precaution taken, it is not worth while to plant. The necessity for some such protection is readily apparent on examining trees from the curbstone side, and observing the large number on



BROADWAY, TREE USED AS A TROLLY POLE.

which the bark has been gnawed by horses. There is a feeling akin to pity when one notes the patient, repeated efforts of the tree to repair the injury—how it tries each year to cover the wound with new wood and bark, only to have it torn and widened by some fresh attack.

Protection from insects requires constant care and watchfulness. As a householder, generally, has only a few trees to look after, he can, with proper care and diligence, effectually check any insect pest before serious damage is inflicted. But neglect and carelessness on his part may result in the loss of his trees. At the first sign of danger expert advice should be sought for as to the proper remedies and methods to be employed.

The insects which kill or injure shade trees may be divided into three general classes: (1) the leaf-devouring or masticating species; (2) the leaf-piercing, non-masticating or sucking insects; (3) the borers. Then there are the following: the tussock moth, the forest tent caterpillar, leopard moth, maple borer, maple tree pruner, cottony scale insect, elm leaf beetle, bag worm, fall web worm, spiny elm caterpillar, elm borer, elm bark louse, elm snout beetle, gypsy and brown tail moths. At the present time we are menaced with the brown tail moth. This pest first came into prominence in Massachusetts in May, 1897, when it was found committing severe depredations on pear trees in Somerville. It seems probable that the insect was brought to this locality on rose bushes imported from Holland or France.

These insects have an unique life history, in that its caterpillars successfully hibernate in a half grown condition in conspicuous webs at the ends of the infested twigs. Leaving these webs as soon as the buds swell in the Spring, the tiny caterpillars first consume the buds and later devastate the foliage. By the last of June they have reached their full development, and spin up in loose cocoons on the smaller branches, on houses, walls, and in other sheltered localities. From these cocoons in about

three weeks' time the white, brown-tailed moths emerge and fly vigorously by night in search of suitable places in which to deposit their eggs. The eggs are laid in compact, hair-covered masses, on the under surface of pear and other leaves, and hatch in about three weeks from the date of laying. From 200 to 400 eggs are deposited by each female moth; the menu of the brown-tail moth includes a wide range of ornamental trees, although primarily it must be considered to be a pest of the pear tree. Wherever it is, numerous maples, willows, and elms are defoliated to a serious extent.

Not the least important feature of outbreaks of the brown-tail moth is the truly terrible irritation caused by hairs of the caterpillar whenever they come in contact with human flesh. This irritation is well compared to nettling several degrees intensified, and probably is of a mechanical nature, being produced by the fine, brittle, barbed hairs breaking up in the skin. It is best allayed by the liberal use of vaseline or sweet oil. From the 1st of December to the 1st of March the best means of destroying the moths is to cut the nests from the trees and burn them.

Let every citizen who finds enjoyment in well-shaded streets make an effort to take care of what trees he has and see that ample funds are annually appropriated by the government for the protection and care of our shade trees.

In the early part of June, the city government appropriated the sum of \$1,000.00 for the care of trees. At the outset of it was necessary to equip the department with the necessary tools and appliances with which to do the work. In addition to performing a vast amount of trimming at the requests of numerous individuals, we have removed from the streets about 50 trees which were dead or so nearly so that their removal was advantageous. Of the number dead, 20 had undoubtedly been killed by



DUTTON STREET, TREE USED AS HITCHING POST.

escaping gas, and it is supposed that several of the others were killed by street improvents.

The lowest cost of removing trees was \$1.62 and the highest cost was \$68.16.

After a careful inspection of the shade trees in the streets I find the total number of trees in good condition to be 8580, the Elm and Maple being in the majority; this number does not include the trees on the parks or commons, or on the streets controlled by the corporations. I also find 158 trees which are dead or dangerous and which in my opinion should be removed.

During the past year we have caused the bill-boards and signs to be removed from the street trees, doing it with as little friction as possible. In most cases the abutters and those interested were agreeable to the change. Branch and Dutton streets were the worst cases of sign bedecked trees.

Years ago the practice of placing rings and chains on trees for the purpose of hitching horses thereto was begun, and until recently it has been kept up. The horses thus hitched eat the bark off the trees and not only render the trunks unsightly, but also destroy the life of the tree. We have gone over the city and removed all such rings and chains wherever found.

Respectfully submitted,

CHARLES A. WHITTET,

City Forester.

ANNUAL REPORT
OF THE
TRUSTEES
OF THE
CITY LIBRARY
OF LOWELL
FOR THE YEAR 1904



LOWELL, MASS.
BUTTERFIELD PRINTING COMPANY

1905

REPORT OF THE TRUSTEES.

LOWELL, MASS., Dec 31, 1904.

To the City Council of the City of Lowell:

The Trustees of the City Library of Lowell, respectfully submit the following report for the year 1904:

FINANCIAL STATEMENT.

RECEIPTS.

Balance from previous year.....	\$ 64.53
Appropriation by City Council.....	16,000.00
Interest on deposit.....	85.14
John Davis Fund.....	2,200.00
Fines.....	280.64
Other sources	45.72
	<hr/>
	\$18,676.03

EXPENDITURES.

Salaries.....	9,442.00
Bindery	789.40
Lights.....	2,241.05
Books—From Library Fund.....	1,255.38
From income of Davis Fund.....	2,200.00
	<hr/>
	3,455.38
Periodicals.....	1654.03
Sundries.....	1,093.66
Balance .....	.51
	<hr/>
	\$18,676.03

Condition of the Library

Volumes purchased.....	2441
Volumes added by gift.....	79
Volumes added by binding periodicals.....	320
Worn-out-books replaced.....	131
Duplicates purchased.....	376
Total number of volumes added.....	2013
Total number of volumes in the library.....	68317
Volumes lost and not paid for	50
Estimated value of the same.....	47.41
Periodicals and papers subscribed for.....	204
Periodicals and papers given.....	32
Number of volumes used, home and reference.....	144,929
Number of volumes consulted in Reference Room.....	14360
Number of post cards sent to delinquents during the year	4167
Applicants received during the year	1953
Applicants who did not call for cards.....	67
Names registered during the year.....	1886
Number of names registered Dec. 31, 1903.....	26246
Total registered to date, Dec. 31, 1904.....	28132
Library open 303 days.....	
Total circulation	144,929
Average daily circulation.....	478
Largest monthly circulation (March).....	15664
Smallest monthly circulation (August).....	8781
Largest daily circulation (Feb. 20)	1121
Smallest daily circulation (Aug. 23).....	199
Percentage of fiction read.....	72
Percentage of other classes.....	28

Administration of the City Library, 1904.

BOARD OF TRUSTEES.

HON. CHARLES E. HOWE, Mayor of the City.
HON. GEORGE F. RICHARDSON, D. A. SULLIVAN,
FRANK P. PUTNAM, THOMAS WALSH,
ROWENA PALMER.

LIBRARIAN.

FREDERICK A. CHASE.

ASSISTANT LIBRARIAN.

HARRIET F. HILL.

ASSISTANTS.

WALTER H. GILMAN,	HARRY C. BOWEN,
CLARA BEARD,	BERTHA G. KYLE,
ALICE H. KIDDER,	ALICE M. MYERS,
MARY S. NICKERSON,	PHILIAS RACICOT,
LIONEL LOUPRET.	

SUPERINTENDENT OF READING ROOM.

STEPHEN T. WYMAN.

List of Donors to the Library, 1904

NAMES	Volumes	Pamphlets
Allen, Miss Louisa A.	2	
Ames, Mrs. Adelbert	29	
Anderson, Mrs. Wm. H.	1	
Boston, City of	1	
Bridge, J. H.	1	
Brown, Harry J.	1	
Carey, A. A.		1
Chase, F. N.	16	
Clay, Mrs. Annie G.	1	
Concord State Library	8	
Cust, R. N.	1	
Davis, Chester O.	1	
Fitchburg, City of	1	
Green, E. H. R.		1
Greene, Mrs. E. M.		1
Harvard University	1	
Hoskier, Herman C.	1	
Hurd, F. W.	5	
Jewish Publication Society	1	
Livingston, C. F.	1	
Locks and Canals Co.	20	

NAMES	Volumes	Pamphlets
Lowell, J. Paul	1	
MacMillan & Co.	1	
Manchester, Rev. L. C., D. D.	1	
Mass. Sons of American Revolution	1	
Mass., State of	28	1
Missouri Committee La. Purchase Exposition	1	
New Jersey, State of	3	
New York Park Commissioners	1	
New York, University of	3	
O'Dwyer, George F.	1	
Providence Journal Co.	1	
Reformed Mennonite Church	1	
Robbins, Miss N. P. H. and others		8
Rogers, H. B.	14	
Royal Geographical Society	2	
Royal Society of Canada	1	
Russell, Miss M. G.	7	
Santa Fe R. R.	1	
Sayles, Fred C., Family of	1	
Thomasville, Ga., Board of Trade	1	
United States : Department of Labor . . .	2	
Smithsonian Institution . .		7
Supt. of Public Documents .	256	246
Wheelock, Kate	1	
Y. M. C. A. of Mass. and R. I.	1	
TOTAL	422	265

Lydia Darrah Chapter, D. A. R.

Facsimile of Declaration of Independence.

ANNUAL REPORT
OF THE
CITY SOLICITOR

FOR THE YEAR ENDING

1904 — '05.



LOWELL, MASS:
UNION PRINTING CO., 67 MIDDLE ST.
1905.

REPORT

OFFICE OF CITY SOLICITOR,
Lowell, Mass., February 28, 1905.

Gentlemen of the City Council :

In compliance with the City Ordinances, I submit the following report of the business of the law department for the year ending February 28, 1905.

LITIGATION.

459. *Gertrude Sheldon, et al vs. City of Lowell.*

Petition to the Supreme Judicial Court for writ of Certiorari to quash the proceedings of the Board of Aldermen, relative to assessments for street water-

ing on property of petitioner for 1903. Date of petition, October 19, 1903.

The case was argued in May, 1904, before Mr. Justice Lathrop. Notice has been received that the Court entered a decree dismissing the petition.

6459. *Bridget Markey vs. City of Lowell.*

This is an action of tort for personal injuries alleged to have been received by the plaintiff January 14, 1904, by reason of an alleged defect in the sidewalk on the easterly side of Market street near the canal and railroad crossing. The writ is dated February 17, 1904, and returnable to the Superior Court the first Monday of March, 1904. As the writ in this case was not served on the defendant thirty days before the entry day, defendant filed a motion to dismiss the action, which motion is still pending.

1272. *John Kearney et al vs. Andrew G. Stiles, et al.*

This was a petition of ten taxable inhabitants of the city of Lowell to restrain its treasurer, Andrew G. Stiles and the City from paying out the sum of fifteen hundred dollars for the proper observance of Labor Day as passed by the City Council of Lowell, and afterwards vetoed by His Honor, Mayor Howe, on July 16, 1904. Thereafter

on July 28, 1904 the Mayor being out of the city temporarily, James F. Miskella, Chairman of the Board of Aldermen as Acting Mayor called a special meeting of the Board of Aldermen and Common Council, and on said date the order appropriating the said sum of \$1500 was read, and the order adopted in concurrence notwithstanding the objections of the Mayor.

It was claimed in the petition and at the hearing that said Miskella acted without right in calling a special meeting of the City Council in the absence of the Mayor, for the reason that under the Charter of the City of Lowell and laws of the Commonwealth, it was necessary for the Board of Aldermen to declare in the first instance that there was a temporary disability on the part of the Mayor to act by reason of his absence temporarily from the city before the duties as Mayor devolved upon the Chairman of the Board of Aldermen.

The matter was heard before Judge Fessenden on August 18, 1904, who refused to grant the temporary injunction prayed for. Thereafter the bill was dismissed by agreement on December 9, 1904.

6695. *Bridget Markey vs. City of Lowell.*

This is an action of tort for personal injuries alleged to have been received by the plaintiff January 14, 1904, by reason of an alleged defect in the

sidewalk on the easterly side of Market street, near the Canal and railroad crossing. The writ is dated March 31, 1904, and returnable to the Superior Court the first Monday of May, 1904.

6694. *Patrick Markey vs. City of Lowell.*

This is an action of tort brought to recover the sum of \$5000, for loss of consortium, comfort, assistance, society and benefit of his wife, Bridget Markey, because of alleged injuries received by her while traveling along the sidewalk on Market street, January 14, 1904. The writ is dated March 31, 1904, and returnable to the Superior Court the first Monday of May, 1904.

572. *Christopher J. McGrath, pro ami, vs. City of Lowell.*

This Claim was heard by the Committee on Claims, which recommended to the City Council the payment of \$250. in full settlement, which recommendation the City Council adopted. As the petitioner was a minor, with no legal guardian, suit was brought against the city in the Police Court, where judgment was entered for said sum of \$250. by agreement, approved by Justice S. P. Hadley.

Allen C. Jones vs. City of Lowell.

This was an action of contract brought in the Superior Court to recover the sum of \$350. alleged to be due him for furnishing food and lodging to certain witnesses during their employment by the City of Lowell in appraising the property of the Tremont and Suffolk Mills. Upon inquiry I found the money was held by the City Treasurer under a misunderstanding and recommended its payment. A release was given by the plaintiff and the writ returned to Court as a non-entry.

John L. Hunt vs. Girard P. Dadman et al.

This was a petition by John L. Hunt of Lowell vs. Girard P. Dadman, City Clerk of Lowell, and John F. O'Brien, Clerk of the Democratic City Committee of Lowell to restrain the said O'Brien from delivering, and said Dadman from receiving the nomination papers of Michael J. Mahoney, a candidate for the Democratic nomination for Senator for the Seventh Middlesex Senatorial District.

The petition alleged that no notice of any caucus was issued by the Democratic City Committee, nor no notice stating the place where, and the day and hour when nomination papers shall be

issued as required by the provisions of Chapter 11, sections 104 and 107 of the Revised Laws of Massachusetts.

This matter was heard by Judge Lathrop in the Supreme Judicial Court on September 20, 1904, and the claim was made by the City Solicitor that the above requirements did not apply to the City of Lowell as the city had not accepted the provisions of Sections 99 to 130, inclusive, of said chapter. The Court refused to grant the injunction and ordered the bill to be dismissed.

Coleman Mail Co. vs. City of Lowell.

This was an action of contract brought by the plaintiff in the Police Court of Lowell to recover the sum of \$9.00 alleged to be due them for furnishing and delivering to the City of Lowell, seventy-five pounds of horse-shoe nails during the year 1900. The writ was dated April 5, and returnable to the Police Court of Lowell the second Saturday of May, 1904. This case was not entered in Court.

274.

Peter Curran vs. City of Lowell.

This is an action of contract brought by the plaintiff in the Police Court of Lowell to recover the sum of \$270.05 alleged to be due him for

work and labor performed for the defendant. The writ is dated May 9, 1904, and was entered in the Court the third Saturday of June, 1904.

478. *Tremont and Suffolk Mills vs. City of Lowell.*

The overruling of the City's exceptions by the Supreme Judicial Court in the cases of Hamilton Manufacturing Company and Appleton Company vs. Lowell, disposed of the questions raised by Bill of Exceptions on this case. I therefore deemed it my duty on behalf of the City to save costs and expense of argument in the case which could have but one result, and agreed that exceptions should be waived and judgment entered upon the finding of the Superior Court.

Tremont and Suffolk Mills vs. City of Lowell.

*Petitions for abatement of taxes covering the years,
1895, 1896, 1898, 1899, 1900, 1901, 1902, and 1903.*

Hamilton Manufacturing Co. vs. City of Lowell.

*Petitions for abatement of taxes covering the years,
1900, 1901, 1902, and 1903.*

Appleton Company vs. City of Lowell.

*Petitions for abatement of taxes covering the years,
1900, 1901, 1902, and 1903.*

As stated in my report of last year, I was of the opinion that the decisions in the Hamilton Manufacturing Company, Appleton Company and Tremont and Suffolk Mills vs. Lowell, would probably decide the city's action in these cases. After the decision of the Supreme Judicial Court in those cases the assessors had several meetings where the question of abatement for the years covered by said several petitions was considered. Abatements made by the assessors were accepted by the petitioners and paid by the city, thus disposing of all tax litigation against the city.

5779. *George W. Marshall vs. City of Lowell.*

This is a petition to the Superior Court to assess damages alleged to have been caused to the petitioner's building and the taking of land for the purpose of widening and straightening and altering the grade in front of his premises in the street known as Parker Street.

1251. *City of Lowell vs. Amedee Archambeault.*

Bill of Complaint by the City of Lowell against Amedee Archambeault praying that a writ of injunction may issue against the respondent

from using and occupying as a stable, building situated on the westerly side of Decatur Street and the northerly side of Decatur Avenue, and from keeping horses therein contrary to the provisions of the Revised Laws. The case was argued December 13, 1904, before Mr. Justice De Coursey and on December 21, 1904, notice was received of a decree of Court ordering a perpetual injunction. Respondent's council appealed to the Supreme Judicial Court, which appeal is now pending.

7337. *Joseph Smith vs. City of Lowell.*

This is an action of contract brought by the plaintiff in the Police Court of Lowell to recover the sum of three hundred dollars, alleged to be due him for services as clerk of the Board of Police of the City of Lowell, for the year ending December 31, 1902. The writ was dated July 23, 1903, and returnable the first Saturday of September, 1903.

The case was submitted on an agreed statement of facts to Justice Hadley of the Police Court of Lowell, who found in favor of the plaintiff. An appeal was taken to the Superior Court, and the matter was submitted on the same agreed statement of facts to Judge Stevens at the Novem-

ber term of the Court at Lowell, 1904. The Court found for the plaintiff for \$337.50. Defendant appealed to the Supreme Judicial Court, which appeal is now pending.

9158. *William B. DeLas Casas, et al.*

Petition of William B. DeLas Casas, et al, Metropolitan Park Commissioners, to Supreme Judicial Court for appointment of Commissioners to determine payments by cities and towns under Acts of 1901, Ch. 491. Appearance for the City of Lowell was entered in Court January 19, 1905.

4664. *Margaret V. Connors, vs. City of Lowell. (equity)*

This is an action to recover, under the statute, certain sums of money paid to the City Treasurer for tax titles which are alleged to be defective by reason of errors, omissions and informalities in the assessment and sale of the land. The writ is dated November 19, 1902, and was returned to the Superior Court the first Monday of January, 1903. The case was argued on agreed statement of facts before Justice Richardson, November 14, 1904, and on January 13, 1905, the court ordered judgment for the plaintiff in the sum of \$413.98 with interest at the rate of ten per cent.

from October 11, 1900. Defendant appealed to the Supreme Judicial Court, which appeal is now pending.

3993. *Maria Corriea vs. City of Lowell.*

This is an action of tort brought by the plaintiff in the Superior Court to recover the sum of \$1000 for alleged damages to her building, situated at 33 Emery Street, caused by the diversion of surface water from Parker Street upon the property of the plaintiff. The writ is dated July 31, 1902, and was returnable to the Superior Court the first Monday of August, 1902. As the writ in this case was not served on the defendant thirty days before the entry day, defendant filed a motion to dismiss the action, which motion is still pending.

By agreement filed with the Court February 15, 1905, entry was made of judgment for the defendant without costs.

City of Lowell vs. Sam H. Rostler, et al.

Bill of complaint by the City of Lowell against Sam H. Rostler and Samuel Rostler and John Berard, praying that a writ of injunction may issue restraining the respondents, their agents and

servants from erecting, maintaining, occupying or using wooden building situated on the southerly side of Middlesex Street and the easterly side of McIntyre Street within the fire district, in violation of City Ordinances.

Grade Crossings.

1264, 1265, 1266, 1266.

Petition of the Mayor, and Board of Aldermen to the Superior Court asking for the appointment of a commission to consider the advisability of a change of grade where the railroad now operated and controlled by the Boston & Maine R.R., New York, New Haven & Hartford R.R., and the Boston & Northern Street Railway crosses the following streets at grade, viz: Middlesex Street, east of Northern Station, Thorndike Street, School Street, Walker Street, Lincoln Street, and Plain Street.

In the following cases no changes have been made since the last Report.

3032. *Bragg Manufacturing Co. (U. S. ct.) vs. City of Lowell.*

4. *Edward F. Conners et al vs. City of Lowell.*

869. *Bernard Delaney et al vs. City of Lowell.*

1560. *Napoleon Houle vs. City of Lowell.*
175. *Lowell Waste Company vs. City of Lowell.*
4665. *John McLaughlin vs. City of Lowell.*
76. *D. Maria Parker vs. City of Lowell*
117. *D. Moody Prescott vs. City of Lowell.*
6558. *Edward Quinn vs. City of Lowell.*
6433. *Wm. H. Shrugruo vs. City of Lowell.*
922. *James Smith et al vs. City of Lowell.*
3564. *Town of Maynard vs. City of Lowell.*
559. *Charles J. Wigren vs. F. O. J. Townsend.*
1151. *Patrick O'Hearn vs. City of Lowell.*

LIST OF OPINIONS WRITTEN SINCE MARCH 1904.

April. To James J. Gallagher, Chairman Joint
Standing Committee on Accounts.
As to the Authority of certain departments to order printing done.
The right to contract bills with firms, one of which members is acting in an official capacity for the city of Lowell.

April 30. To Hon. Charles E. Howe, Mayor of
Lowell.
Relating to the payment of salary to Dr. Guy Holbrook and John H. McGinnis after expiration of their term of office and before confirmation of successors.

May 5. To A. K. Whitcomb, Superintendent of
Schools.
As to "How long children in Lowell schools retain the right to attend schools here without the payment of tuition, after their parents have removed to some other city or town."

May 10. To Robert W. Mountford Secy. Board
of Trustees of Public Burial
Grounds.

Relating to the rights of the city of
Lowell in the School Street Burial
Ground.

May 14. To Charles A. Whittet, Superintendent
of Parks.

Relating to right of Park Commission
to remove bill boards encasing shade
trees on public way.

May 16. To James B. Conlan, Superintendent of
Public Buildings.

Relating to right of Overseers of Poor
to stop repairs at City Hospital and
Almshouse.

June 2. To Girard P. Dadman, City Clerk.

As to whether authority to grant swill
licenses is vested in Board of Aldermen
or Board of Health.

June 15. To James B. Conlan, Superintendent of
Public Buildings.

Relating to material to be used in fire
district.

June 25. To Martin J. Courtney, Secy. Overseers
of Poor.

As to whether the Superintendent of
Lands and Buildings has any right to
make repairs, or put in new work, at
the City Hospital and Almshouse with-
out being ordered so to do by the
Overseers of the Poor.

July 10. To Frank M. Dowling, Clerk of Com-
mittees.

Relating to claims of William J. Sulli-
van, and Elizabeth C. Quigley.

July 15. To George W. Peterson, Councilman.
Relating to the authority of Mr. Fox
to cut the "meadow grass" at the
Rifle Range.

August. To Charles A. Whittet, Superintendent
of Parks.

Relating to the rules and regulations of
the Park Commission.

Aug. 23. To Hon. Chas. E. Howe, Mayor.
Relating to the legality of a special meet-
ing of the City Council in the absence
of the Mayor.

Oct. 21. To Hon. Chas. E. Howe, Mayor.
Relating to claim for wages by school
janitors from the time of their discharge
until their reinstatement.

Nov. 7. To A. K. Whitcomb, Superintendent
of Schools.

Relating to payment of tuition for at-
tendance of children whose parents re-
side in another town.

Dec. 15. To the City Council.
As to the legality of a "Joint Order"
appropriating four hundred sixty-nine

dollars and seventy-five cents to defray expenses of Labor Day Observance.

• 1905.

Feb. 3. To Martin J. Courtney, Secy. Overseers of Poor.

As to which of two elections for members of the dispensary staff of doctors for this department was legal.

Feb. 13. To Hon. James B. Casey.

Relating to rights and privileges of citizens of Lowell in the free landings, question as to grade to effect a safe landing, and limitation upon height of bridges from high water mark.

Feb. 15. To City Treasurer.

Relating to Demand by Appropriation Committee for names of those who are in arrears for taxes.

Respectfully submitted,

WILLIAM A. HOGAN,

City Solicitor.

Report of the Inspector of Wires.

February 1st, 1905.

To His Honor, the Mayor and Members of the City Council of the City of Lowell.

GENTLEMEN: —

I herewith submit my sixth annual report and the sixth annual report issued by the Wire Department since its organization, showing the work accomplished from February 1st, 1904 to February 1st, 1905.

The following table shows the character of service for the year ending February 1st, 1905.

Character of Service.	Incdts.	Arcs.	Motors.	H. P.
171 Stores	2443	74	57	46¼
63 Residences	1479		4	½
22 Offices	209		4	5⅜
3 Hospitals	275			
1 Armory	503			
2 Wood Yards	4		1	4
2 Theatres	288		1	13
4 Churches	240			
4 Banks	16			
12 Hotels	291		2	1½
2 Grain Elevators	110		1	1
6 Blocks	1698	7		
1 Studio	80			
3 Schools	107		1	5
4 Halls	618			
2 Stables	32			
12 Factories	1881	5	3	26
3 Printing Offices	20		1	36
1 Jail	80			
1 Brewery	20			
1 Gas Works	20			
1 Water Works	30			
1 Restaurant			1	1
	10,444	86	76	139⅝

The following table shows the streets on which The New England Telephone and Telegraph Company of Massachusetts were granted pole locations during the year:

Eighteenth Street; Between Humphrey and Beacon Streets.....	3 poles
Humphrey Street, between Eighteenth and East Nineteenth Streets	1 pole
Sixth Avenue, between Mt. Hope and Crawford Streets	4 poles
Crawford Street between Sixth Avenue and Seventh Avenue	1 pole
Cornell Street	3 poles
Eaton Street, from Massasoit Street to No. 202 Eaton Street.....	3 poles
Forrest Street, between Stevens Street and No. 109 Forrest Street.	
Coburn Street, between Hildreth Street and No. 164 Coburn Street.....	
Crawford Street, between Third and Fourth Avenue	3 poles
Foster Street, between Middlesex Street and No. 75 Foster Street.....	
Phillips Street, between Marsh Street and No. 20 Phillips Street	
Parker Street, between Pine Street and No. 453 Parker Street.	4 poles
Fort Hill Avenue, between Sherman and Astor Streets	1 pole
Watson Street, between Whipple and Lawrence Streets.....	relocation of poles
Gorham Street, between Suttle Avenue and City Line.....	relocation of poles
Westford Street.....	relocation of one pole
Lakeview Avenue, corner of Fulton Street	relocation of one pole

The following table shows the streets on which The Lowell Electric Light Corporation were granted pole locations during the year:

Aiken Avenue.....	3 poles
Varnum Avenue..	1 pole
West Sixth Street.....	3 poles
Kirk Street.....	1 pole
Porter Street	1 poles
Standish Street.....	1 pole
Hovey Avenue.....	1 pole
Aiken Avenue, corner of Cheever Street	relocation of one pole
Dummer Street, corner of Little Street	relocation of one pole

The Postal Telegraph Cable Company were granted permission to relocate one pole on Varnum Avenue.

SCHEDULE OF PERSONAL PROPERTY, FEB. 1st, 1905.

1	Roll Top Desk.....	\$ 34 74	
1	Typewriter	92 25	
1	Filing Cabinet.. ..	55 00	
1	Concord Buggy.....	185 00	
1	Sleigh	30 00	
1	Horse.....	130 00	
1	Harness	35 00	
1	Street Blanket.....	7 00	
1	Stable Blanket.....	6 00	
1	Plush Robe	12 00	
1	Halter.....	3 00	
1	Hitch Rope.....	75	
1	Whip	2 00	
1	Surcingle.....	1 50	
1	Saddle	9 00	
1	Net,	2 50	
1	Rubber Cover.....	4 00	
1	Under Harness Blanket.....	8 00	
1	Draughting Board.. ..	6 80	
1	1000 Feet Steel Tape.....	9 00	
1	Badge.....	2 50	
1	Pair Rubber Gloves...	3 00	
1	Lantern	75	
2	Pean Hammers.....	1 50	
2	Belt Awls.....	30	
50	No. 9171 Receptacles.....	7 50	
1	Shoe Boil Boot....	2 00	
1	Combination Wire Cutter.....	85	
1	Pair Shears.....	1 50	
1	Pair Scissors.....!	1 50	
1	Combination Punch.....	2 50	
		<hr/>	\$655 44

Respectfully submitted,

(Signed) JAMES F. McELHOLM,

Inspector of Wires.

LIST OF JURORS

FOR THE

CITY OF LOWELL,

FOR THE YEAR 1905.



LOWELL, MASS.

THE LIBBY PRINTING COMPANY.

1905.

LIST OF JURORS.

A

ABBOTT, HENRY F.	278	Branch st.	dealer
ABBOTT, JOHN W.	12	Fremont st.	tinsmith
ALLEN, JAMES B.	20	Middlesex st.	superintendent
ABBOTT, LARROY S.	20	Broadway	machinist
ABELS, ALEXANDER M.	43	Nicollet st.	merchant
ABELS, SAMSON	43	Nicollet st.	merchant
ABELL, ORREN W.	314	Westford st.	compositor
ACHIN, WILLIAM	4	Butterfield st.	operative
ADAMS, ASBURY F.	72	First st.	clerk
ADAMS, JOSEPH J.	8	Third st.	carpenter
ADAMS, CHARLES E.	218	Wilder st.	hardware
ADAMS, EDWARD E.	84	Middlesex st.	music teacher
ADAMS, ENOS H.	332	East Merrimack st.	shoe dealer
ADAMS, FRANK H.	90	Third st.	carpenter
ADAMS, JOHN W.	511	School st.	painter
ADAMS, MARK A.	43	Berkley av.	clerk
ADAMS, SAMUEL A.	1358	Varnum av.	farmer
ADAMS, THEODORE	21	Windsor st.	janitor
ADAMS, WALTER S.	13	Read st.	machinist

A

AHLBERG, CHARLES A.	61	Lundberg st.	machinist
ALEXANDER, LOUIS	261	Gibson st.	tailor
ALLARD, J. OMER	64	Chase av.	clerk
ALLEN, CHARLES O.	49	Twelfth st.	clerk
ALLEN, CORTES M.	20	Washington st.	fish dealer
ALLEN, JOHN F.	9	Whiting st.	loom fixer
ALLEN, THOMAS O.	947	Middlesex st.	inspector of milk
ALLEN, WALTER M. N.	39	Elliot st.	machinist
ALWAY, CHARLES E.	3	East Pine st.	carpenter
AMADON, FRED C.	53	Washington st.	clerk
AMES, ADELBERT JR.	333	Andover st.	gentleman
ANDERSON, CARL F.	93	London st.	dyer
ANDREWS, J. MUNN	452	East Merrimack st.	secretary
ANDERSON, JOHN A.	20	Billerica st.	dyer
ANGELO, JAMES J.	51	Pond st.	piper
APPLETON, FRANCIS E.	59	Pine st.	paymaster
ARMSTRONG, FRED W.	258	Merrimack st.	shoemaker
ARNOLD, WILLIAM A.	75	Fremont st.	clerk
ARTHUR, JAMES B.	28	Aiken st.	gentleman
ASHWORTH, GEORGE L.	33	Rock st.	file cutter
ASHTON, HENRY W.	34	Burnaby st.	carpenter
ASPINWALL, JAMES M.	8	Hamilton Corp.	student
ATHERTON, CHARLES S.	26	Tyler st.	baker
ATWOOD, FRANK S.	7	Whitney av.	buyer
ATWOOD, WALTER E.	194	Cross st.	electro plater
ATWOOD, EARL K.	1084	Bridge st.	beltmaker
ATWOOD, WILLIAM P.	17	Nineteenth st.	chemist
AUSTIN, JOHN G.	143	Westford st.	foreman
AUSTIN, FRED A.	9	Loring st.	shoe maker
AUSTIN, CHARLES E.	90	Mt. Vernon st.	pianos
AUDETTE, JOSEPH	191	Salem st.	tanner

A

AVEYARD, CHARLES25 Ware st.superintendent
 AYER, CHARLES F.249 Pawtucket st.banker

B

BABCOCK, HENRY E.75 Bowers st.salesman
 BACHELDER, GEORGE H.210 Appleton st.bicycles
 BAILEY, HARRY L.76 Fremont st.merchant
 BAILEY, JOHN A.17 Columbia st.agent
 BAKER, FREDERICK W.136 Myrtle st.machinist
 BAKER, HERBERT R.24 W. Third st.musician
 BAKER, GEORGE N.52 Hanks st.manager
 BAKER, J. AVISON103 South Loring st.music teacher
 BALCOM, LON M.175 Warwick st.laborer
 BALDWIN, EDWIN K.92 Holyrood av.bookkeeper
 BALCH, EDWARD E.96 Gates st.clerk
 BALDWIN, FREDERICK G.374 Beacon st.bookkeeper
 BALFREY, JOHN312 Market st.shoemaker
 BALDWIN, JOHN D. S.534 Merrimack st.moulder
 BANCROFT, JOHN J. JR.14 Alder st.cashier
 BANFORD, JOHN S.10 Osgood st.merchant
 BARCLAY, OSCAR R.162 Smith st.carpenter
 BARKER, JOSEPH S.538 Chelmsford st.machinist
 BARNARD, VIRGIL G.68 Harvard st.bookkeeper
 BARNES, CHARLES O.42 London st.printer
 BARNES, HENRY W.30 Huntington st.tailor
 BARON, CHARLES C.88 Eleventh st.clerk
 BARR, WILLIAM A.48 Varney st.clerk
 BARRETT, EDWARD J.94 School st.merchant
 BARRY, JAMES W.177 Middlesex st.machinist
 BARRY, PATRICK H.294 Wentworth av.clerk

B

BARSTOW, WALTER T.	7	Willie st.	clerk
BARTLETT, HAYWARD M.	2	West Eleventh st.	clerk
BARTLETT, HENRY	141	Nesmith st.	superintendent
BARTLETT, JOSEPH O.	15	Barclay st.	laborer
BARTLETT, ROBERT G.	78	Stevens st.	real estate
BARTLETT, WALTER E.	523	Fletcher st.	clerk
BARTLETT, WILLIAM T. S.	167	Varnum av.	hardware
BARTON, CYRUS	78	South Walker st.	contractor
BARNES, EDSON S.	43	Hamilton corp.	electrician
BARRETT, ANDREW E.	77	Mt. Vernon st.	grocer
BARRETT, PATRICK	6	Whites Blk., George st.	boarding ho'se
BARRIS, WILLIAM J.	101	Chapel st.	overseer
BARRY, JAMES H.	32	Fairview st.	superintendent
BARRY, JOHN H.	15	Lombard st.	plumber
BASSETT, CYRUS R.	90	Andrews st.	operative
BATEMAN, JOHN F.	5	Stevens st.	surveyor
BEALS, GEORGE M.	97	Jewett st.	harness maker
BEAN, HARRY C.	441	Worthen st.	clerk
BEAN, FRANK S.	26	Eleventh st.	merchant
BEAN, SYLVESTER	120	Methuen st.	contractor
BEANE, THOMAS J.	104	Pleasant st.	insurance
BEAULIEU, JOHN H.	202	Hildreth st.	grocer
BEE, HENRY C.	53	Royal st.	foreman
BEAUCAGE, ARTHUR A.	447	Moody st.	ins. agent
BEAUREGARD, OLIVER J.	22	Wiggin st.	grocer
BILLINGSLY, FRED	178	Concord st.	clerk
BELLEFONTAINE, MILLER	782	Moody st.	furniture dealer
BELL, CHARLES W.	285	High st.	clerk
BELL, FRANK A.	56	Methuen st.	machinist
BENNETT, GEORGE A.	51	Marshall st.	roofer
BENNETT, JOHN C.	173	Branch st.	merchant

LIST OF JURORS

7

B

BERGERON, ALBERT5	Ellis ct.laundry
BERNARD, ERNEST A.	.....58	Cabot st.	.....barber
BERNIER, JOSEPH	.....65	Salem st.	.....laborer
BERRY, WALTER P.	.....64	Lane st.	.....door maker
BERTRAND, ARTHUR M.	.....24	Middle st.	.....tailor
BICKFORD, EDWIN S.	.....532	Westford st.	....mill superintendent
BIGGS, JOHN	.....1107	Middlesex st.	.....carpenter
BILL, FREEMAN M.	.....61	Eleventh st.	.....grocer
BISBEE, HERBERT L.	.....45	West Fifth st.	.....baker
BISHOP, HERBERT L.	.....28	May st.	.....clerk
BISSELL, WILLIAM E. K.	.....117	Third st.	.....salesman
BISSONETTE, ZEPHYRIN J.	....60	Third av.	.....tel. operator
BIXBY, ALBERT J.	.....80	D st.	.....overseer
BIXBY, NEWTON	.....61	Bartlett st.	.....operative
BLACK, WILLIAM P.	.....47	Whipple st.	.....janitor
BLACKBURN, JOHN	.....71	London st.	.....plumber
BLAKE, JOHN H.	.....129	Fulton st.	.....belt maker
BLAKE, CHARLES L.	.....29	Anne st.	.....engraver
BLOOD, CHARLES W.	.....4	Robert st.	.....tinsmith
BLANCHARD, ISAAC H.	.....54	Grove st.	.....drug clerk
BLANCHARD, WILLIAM H.	.....54	Grove st.	.....mason
BLODGETT, EMERY F.	.....585	Chelmsford st.	.....bookkeeper
BOARDMAN, ALBERT W.	....3-117	Willie st.	.....machinist
BOARDMAN, GEORGE H.	.....356	East Merrimack st.	.....clerk
BOARDMAN, JOSEPH H.	.....64	Hanks st.	.....salesman
BOARDMAN, WILLIAM W.	.....135	Liberty st.	.....real estate
BOISVERT, CHARLES H.	.....94	Lilley av.	.....baker
BOISVERT, JACQUES	.....363	Hildreth st.	.....real estate
BOLDUC, EUGENE	.....10	Aiken av.	.....operative
BOOTH, JOHN J.	.....123	Railroad st.	.....laborer
BOSWORTH, GEORGE A.	.....256	School st.	.....clerk

B

BOUGHTON, JOHN L.	308	Thorndike st.	teamster
BOWLEY, CLIFTON I.	231	Appleton st.	veterinarian
BOUCHER, THOMAS E.	61	Hampshire st.	clerk
BOUDREAU, JOHN B.	24	Crawford st.	laborer
BOULAIS, ARTHUR N.	23	Crawford st.	clerk
BOULGER, JOHN B.	74	Wentworth av.	clerk
BOULGER, THOMAS P.	74	Wentworth av.	shoe dealer
BOWEN, FRANK A.	43	Gates st.	superintendent
BOYLE, WILLIAM F.	41	Union st.	insurance
BOWERS, DUNCAN V.	453	Lawrence st.	grocer
BOX, JOHN W.	7	Lyon st.	laborer
BOYERS, JOHN	12	Albion st.	loom fixer
BOYLE, JAMES H.	110	Congress st.	laborer
BOYLE, JOHN F.	32	Whipple st.	clerk
BOYLE, JOHN L.	rear 110	Congress st.	machinist
BOYLE, THOMAS H.		Washington Tavern ...	liquor dealer
BOYNTON, D. RAYMOND	180	Pawtucket st.	grocer
BRACKETT, ALBERT W.	71	Middlesex st.	overseer
BRADEN, THOMAS H.	118	Branch st.	contractor
BRADLEY, EDWARD	274	Thorndike st.	laborer
BRADLEY, RAYMOND D.	62	Rock st.	teamster
BRADT, DAVID H.	125	Mt. Vernon st.	baker
BRADT, GERRITT J.	523	Fletcher st.	baker
BRADY, JOHN F.	16	So. Highland st.	clerk
BRADY, PETER J.	16	So. Highland st.	merchant
BRAMHALL, FRANK E.	84	Tenth st.	machine printer
BRASSILL, DENNIS	58	Walnut st.	operative
BRAY, RICHARD	12	Pollard st.	superintendent
BRAZER, RALPH F.	46	Fairmount st.	merchant
BREEN, FRANK C.	67	Midland st.	dealer
BREEN, JOHN P.	9	Lyon st.	operative

B

BREEN, PHILIP J.	9	Lyon st.	grocer
BRENNAN, JOHN J.	196	Concord st.	clerk
BRENNAN, OWEN E.	13	Merrill st.	merchant
BRIEN, JAMES A.	124	Westford st.	furniture
BRIERLEY, EUGENE L.	74	South Loring st.	painter
BRIGHAM, EDWARD W.	75	Fort Hill av.	clerk
BROCK, GREENLEAF C.	118	First st.	druggist
BROOKS, HENRY O.	17	Nicollet st.	civil engineer
BROTHERS, GEORGE W.	62	Royal st.	clerk
BROTHERS, WALTER A.	62	Royal st.	student
BROWN, CHARLES W.	185	Andover st.	druggist
BROWN, FRANK K.	321	High st.	wool buyer
BROWN, MALCOLM D.	517	Chelmsford st.	manufacturer
BROWN, MILON D.	295	Central st.	cigars
BROWN, NELSON	275	Gibson st.	gentleman
BROWN, OSCAR W.	50	Queen st.	janitor
BROWN, PHILIP P.	59	Second av.	coal dealer
BROWN, WALTER R.	182	Westford st.	civil engineer
BROWN, WILLIAM D.	150	Third st.	real estate
BROWN, WILLIAM H.	140	Hampshire st.	teamster
BRUCE, KENNETH R.	1088	Bridge st.	clerk
BRUNELLE, PIERRE, JR.	843	Moody st.	jeweler
BURNS, JAMES F. JR.	412	Lakeview av.	machinist
BURNS, JOHN F.	412	Lakeview av.	Post Office
BRYANT, FRED A.	284	Pine st.	musician
BUCKLEY, GEORGE	190	High st.	motorman
BUCKLEY, WILLIAM F.	17	Concord st.	mechanic
BUCKLEY, JOHN	305	Summer st.	bookkeeper
BUGBEE, D. WEBSTER	63	Oakland st.	hay and grain
BULL, CHARLES H.	32	Second st.	carpenter
BURBANK, JOHN E.	29	Anne st.	merchant

B

BURBANK, SAMUEL	72	Fort Hill av.	clerk
BURBECK, FREDERICK A.	20	Middlesex st.	clerk
BURBECK, WILLIAM J.	32	Sheldon st.	milk dealer
BURGESS, EDWIN A.	545	Middlesex st.	news dealer
BURKE, EDWARD H.	112	Lewis st.	machinist
BURKE, EDWARD N.	216	Nesmith st.	superintendent
BURKE, MICHAEL D.	205	Lakeview av.	fireman
BURKINSHAW, JOSEPH	18	Bellevue st.	druggist
BURNS, EDWARD	154	Concord st.	wool sorter
BURNS, FRANCIS A.	84	Pleasant st.	bookbinder
BURNS, GEORGE E.	25	Eighteenth st.	clerk
BURNS, JAMES E.	23	State st.	operative
BURPE, WILLIAM P.	30	Abbott st.	operative
BURNS, JOHN J.	607	Westford st.	clerk
BURRAGE, HERBERT D.	65	Harvard st.	clerk
BURRILL, JOHN F.	612	Beacon st.	clerk
BURTT, ARTHUR M.	142	Third st.	architect
BUTCHER, ROBERT J.	365	Wilder st.	superintendent
BUTLER, FRANK E.	400	Westford st.	pattern maker
BUTLER, FREEMAN H.	735	Varnum av.	druggist
BUTLER, JOSIAH	139	Stevens st.	clerk
BUTLER, THOMAS F.	2	Lowell pl.	machinist
BUTTERFIELD, ARTHUR D.	84	Forrest st.	printer
BYAM, OTIS	79	Canton st.	milkman
BYRNE, PATRICK J.	571	East Merrimack st.	coachman

C

CADDELL, PETER	17	Caddell av.	carpenter
CADDELL, WILLIAM	557	Chelmsford st.	shipper
CADY, ALFRED S.	90	Dover st.	engineer

C

CADY, GEORGE L. JR.	150	Mt. Vernon st.	manufacturer
CADY, HARRY F.	82	Grand st.	real estate
CAHILL, JAMES H.	28	First st.	salesman
CAHILL, MICHAEL J.	389	High st.	horseshoer
CALDERWOOD, WILLIAM	434	High st.	cigars and tobacco
CALLAHAN, JOSEPH	537	Lawrence st.	steam fitter
CALLAHAN, PHILIP H.	82	Beacon st.	paper hanger
CAMPBELL, GEORGE	61	Agawam st.	butcher
CAMPBELL, JAMES L.	83	Queen st.	salesman
CARMICHAEL, JOHN J.	27	Ellsworth st.	carpenter
CARNEY, OWEN J.	20	Market st.	Hotel keeper
CAROLAN, FRANK	256	Concord st.	dealer
CARON, HORACE E.	37	Fifth av.	telegrapher
CARPENTER, HENRY	19	Dempsey pl.	operative
CARPENTER, W. IRVING	28	South Whipple st.	dealer
CARPENTER, PHILIPPE	16	Dempsey pl.	operative
CARRIGG, JOHN J.	18	Second st.	clerk
CARROLL, DANIEL F.	118	South Highland st.	plumber
CARSON, GEORGE		Middlesex yard	watchman
CARTER, ALBERT D.	105	Moore st.	manufacturer
CARTER, EDGAR J.	63	Jenness st.	foreman
CARTER, JOHN T.	97	Hastings st.	cabinet maker
CASEY, GEORGE W.	45	Willow st.	tanner
CASEY, JAMES B.	87	Summer st.	bookkeeper
CASEY, THOMAS P.	133	Moore st.	brewery
CASHIN, CHARLES E.	156	Wilder st.	machinist
CASSIDY, JOHN J.	263	Thorndike st.	machinist
CASWELL, JOHN A.	26	Second st.	optician
CAULEY, EDWARD	85	Rogers st.	coal dealer
CAVERLY, HAROLD	65	Fifth st.	clerk
CAVANAUGH, SIMON A.	98	Andover st.	salesman

C

CHADWICK, ALFRED M.	87 Fort Hill av.	superintendent
CHADWICK, CHARLES H.	1354 Gorham st.	salesman
CHALIFOUX, EDWARD E.	305 Summer st.	salesman
CHALIFOUX, JOSEPH L.	377 Wilder st.	merchant
CHAMBERS, JOHN H.	942 Central st.	laborer
CHAMPAGNE, EUSEBE	420 Moody st.	ins. agent
CHANDLER, JOHN A.	310 Westford st.	watchman
CHAPUT, PHILIP	102 Ford st.	carpenter
CHARLTON, RICHARD	538 Westford st.	designer
CHARTERS, REUBEN P.	112 Congress st.	watchman
CHASE, ERNEST D.	30 Hawthorne st.	designer
CHASE, FRANK K.	894 Moody st.	clerk
CHASE, GEORGE A.	36 Canton st.	superintendent
CHASE, HOWARD E.	237 Foster st.	machinist
CHATFIELD, FRANK B.	334 Stevens st.	clerk
CHEEVER, DAVID K.	12 Lane st.	dealer
CHENEY, ARTHUR L.	15 Loring st.	draughtsman
CHEVALIER, EDWARD	53 Fifth av.	clerk
CHILDS, EDWARD L.	62 South Walker st.	overseer
CHOATE, ALBERT H.	509 Beacon st.	clerk
CHURCH, CHARLES L.	126 Walker st.	foreman
CLARK, AVERY B.	33 Anne st.	superintendent
CLARK, CHARLES E.	1 McGovern's yd.	clerk
CLARK, CORNELIUS E.	228 High st.	machinist
CLARK, JOHN A.	295 Central st.	clerk
CLARK, MARION S.	203 Gibson st.	cashier
CLARK, OWEN W.	13 Tremont corp.	clerk
CLARK, T. FRANK	33 Davidson st.	collector
CLAUS, EMILE	207 Worthen st.	operative
CLAY, HENRY	31 Race st.	box maker
CLAY, MILO D.	411 School st.	painter

C

CLEARY, DANIEL	47	Swift st.	plasterer
CLEE, WILLIAM	8	Wachusett st.	weaver
CLEMENT, DANIEL W.	23	Emery st.	clerk
CLIFFORD, CHARLES T.	99	Westford st.	dentist
CLIFFORD, EVERETT A.	20	Lane st.	clerk
CLIFFORD, WARREN	252	High st.	dyer
CLOUGH, CHARLES H.	546	Rogers st.	clerk
CLUER, ARTHUR H.	3	Wachusett st.	harness dealer
CLUIN, JOHN J.	130	Fort Hill av.	jeweler
CLUNE, PETER A.	39	Groves av.	barber
COBURN, ARTHUR S.	49	Oak st.	clerk
COBURN, CHARLES H.	279	Nesmith st.	merchant
COBURN, CLARENCE G.	215	Mammoth road	grocer
COBURN, FREDERICK W.	279	Nesmith st.	merchant
COBURN, GEORGE B.	15	Alder st.	real estate and insurance
COBURN, HARRY W.	145	Beacon st.	dentist
COBURN, LAURENS W.	204	Cross st.	clerk
COBURN, WALTER S.	45	Talbot st.	manufacturer
COGNAC, EMERY	41	Fourth av.	clerk
COGGER, WILLIAM	82	Parkview av.	clerk
COGGESHALL, FRED H.	26	Nichols st.	clerk
COLE, JOHN W.	27	Durant st.	steward
COLEMAN, JOSEPH H.	65	Fulton st.	clerk
COLLINS, DANIEL	39	Lyon st.	laborer
COLLINS, JOHN	27	Franklin ct. north	painter
COMMERFORD, EDWARD J.	490	Moody st.	clerk
CONANT, CHARLES H. JR.	74	Huntington st.	bank clerk
CONANT, EDMUND B.	39	Talbot st.	appraiser
CONANT, FREDERICK	253	Gibson st.	manager
CONATON, PETER F.	43	Marlborough st.	plumber
CONDON, JOHN H.	96	Midland st.	janitor

C

CONLEY, JOHN F.	11	Haggetts Bolek, High st. ...	plumber
CONLEY, LEANDER F.	69	Tolman av.	overseer
CONLEY, MARTIN F.	7	Richmond st.	barber
CONNELL, RICHARD J.	28	Walnut st.	printer
CONNERS, EDWARD F.	163	Plain st.	merchant
CONNERS, PHILIP P.	459	Chelmsford st.	merchant
CONNOLLY, MICHAEL H.	124	First st.	clerk
CONNOR, BERNARD A.	4-262	School st.	laborer
CONROY, JOHN F.	152	Powell st.	St. Ry. conductor
CONROY, ROBERT F.	69	Lilley av.	operative
COOKE, CHARLES E.	182	Smith st.	elevator
COONEY, DENNIS J.	25	Auburn st.	laborer
COOPER, HENRY C.	46	Talbot st.	furniture
COPE, EDWIN	342	Pawtucket st.	trader
COPELAND, CHARLES S.	101	Gates st.	electrotyper
CORBETT, JOHN H.	14	Burns st.	merchant
CORBETT, MICHAEL	32	Highland st.	dealer
CORCORAN, JOSEPH F.	40	Fort Hill av.	printer
CORLISS, AMMI L.	9	Methuen st.	machinist
CORNELLIER, ARTHUR	11-754	Aiken st.	barber
CORWIN, HARRY J.	25	Huntington st.	clerk
COSSETTE, MARJORIQUE J.	40	West Fourth st.	clerk
COSSETTE, MOISE	543	Moody st.	janitor
COSTELLO, THOMAS F.	293	Nesmith st.	plumber
COTTON, ARTHUR W.	73	Third st.	machinist
COTTHAUS, OTTO J.	146	Jewett st.	barber
COUGHLIN, JEREMIAH	359	Concord st.	gardner
COURTNEY, PATRICK	11	Marsh st.	retired
COX, PATRICK J.	150	Charles st.	operative
COX, SIMON	71	Church st.	shoemaker
COX, TERRENCE J.	534	East Merrimack st.	barber

C

COX, WILLIAM H.	348	East Merrimack st.	painter
CRAIG, JOSEPH	30	Congress av.	B. & M. R. R.
CRANE, EUGENE F.	425	Central st.	clerk
CREVIER, CHARLES	284	Salem st.	blachsmith
CROMPTON, JOHN	98	Fremont st.	printer
CROSBY, FREDERICK H.	111	Moore st.	mason
CROSBY, JASON W.	81	Smith st.	overseer
CROSS, FRANK R.	31	Princeton st.	clerk
CROSS, WINFIELD	110	Beech st.	janitor
CROWLEY, DENNIS J.	112	Walker st.	clerk
CROWLEY, PATRICK H.	131	Fletcher st.	laborer
CROWLEY, ROBERT E.	115	Fort Hill av.	agent
CRYSLER, H. STANLEY	20	Phillips st.	architect
CUFF, JOHN H.	18	Agawam st.	shuttle maker
CUMMINGS, FRANK G.	187	Varnum av.	box maker
CUMMINGS, LAWRENCE	29	Huntington st.	reporter
CUMMISKEY, ARTHUR J.	165	Branch st.	clerk
CUMMISKEY, JOHN, J.	14	Whipple st.	laborer
CURRY, JAMES	105	Tremont st.	steam fitter
CURTIN, JOHN J.	122	Chapel st.	clerk
CURTIS, CHARLES E.	433	Central st.	machinist
CUSTY, PATRICK J.	96	Mt. Washington st.	tinsmith
CUTLER, JOHN S.	840	Varnum av.	barber
CUTTING, LAWRENCE F.	124	Methuen st.	clerk

D

DAIGLE, HENRI	43	Beaver st.	operative
DAIGNEAULT, OSCAR J.	466	Merrimack st.	hairdresser
DAINTON, WILLIAM A.	158	Avon st.	insurance agent

D

DALEY, PETER	203	Broadway	operative
DALEY, WILLIAM	11	Mill st.	barber
DALLAGHER, JOSEPH W.	63	Coburn st.	laborer
DALY, FRANK W. S.	585	School st.	clerk
DANA, HARRY C.	365	Worthen st.	machinist
DANAHY, FRANK J.	33	State st.	plasterer
DANAHY, JOHN J.	22	Crowley st.	tinsmith
DANAHY, WILLIAM H.	347	Market st.	clerk
DANFORTH, FRANK L.	81	Fremont st.	machinist
DAILEY, JOHN	159	Chapel st.	operative
DANE, GEORGE F.	53	Oakland st.	B. & M. R. R.
DANIELS, JOHN S.	558	Chelmsford st.	farmer
DAVID, ALBERT W.	234	Gibson st.	clerk
DAVIDSON, WILLIAM	187	Mammoth road	mason
DAVIS, CHARLES F.	30	Cabot st.	shoe shop
DAVIS, OTHELLO P.	417	Wilder st.	livery stable
DAVIS, PRENTISS T.	38	Ludlam st.	operative
DAWSON, JAMES	84	South Whipple st.	paper hanger
DAWSON, JOSEPH F.	9	Whipple st.	plumber
DEAN, SIMON	174	Crosby st.	clerk
DEANS, WILLIAM G.	144	Winthrop av.	mason
DEGE, HANS C.	10	Parkview av.	dye
DEARBORN, CHARLES O.	31	Barclay st.	clerk
DEARTH, ALBERT E.	12	Broadway	machinist
DELISLE, NUMA	467	Moody st.	janitor
DELMAGE, WILLIAM A.	30	Third st.	janitor
DENAULT, HUBERT	749	Merrimack st.	pianos
DENNETT, ALVANUS M.	57	Fourth st.	pawnbroker
DENNING, LÉVI	251	Mt. Hope st.	grocer
DENNIS, JOHN N.	275	Summer st.	manufacturer
DERBY, FRANK H.	320	Wentworth av.	electrician

D

DEVINE, PATRICK F.	67	Parkview av.	trunk maker
DESLANDES, AMBROSE	65	Branch st.	barber
DESMARAIS, PHILIP	37	Second av.	clerk
DEVINE, PHILIP	61	Chapel st.	moulder
DEVLIN, JAMES P.	43	Willow st.	printer
DEVOLL, ANDREW J.	53	Thirteenth st.	salesman
DEVOLL, CABOT	53	Thirteenth st.	clerk
DEWAR, DAVID W.	364	Beacon st.	cashier
DEXTER, ATHUR L.	518	Westford st.	student
DEXTER, OREL K.	20	Starbird st.	blacksmith
DEXTRA, JOSEPH	534	Merrimack st.	barber
DICKERMAN, WILLIAM O.	74	Bellevue st.	clerk
DICKINSON, WATSON A.	190	Branch st.	manufacturer
DICKEY, MANLEY L. ..	Cor. Branch St. and Smith av.	carpenter	
DICKEY, THOMAS L.	Porter Terrace	insurance agt.	
DICKSON, DAVID	142	Smith st.	tea dealer
DILLON, JOHN F.	323	Concord st.	clerk
DILWORTH, DENNIS	44	Merrill st.	overseer
DOHERTY, HENRY P.	93	Adams st.	painter
DOHERTY, JAMES F.	8	Grove st.	foundry
DOLE, ALBERT F.	595	Westford st.	slater
DONAHUE, CORNELIUS F.	42	Chambers st.	clerk
DONLAN, JOHN	81	Prince st.	weaver
DONNELLY, JOHN P.	36	Floyd st.	horseshoer
DONOHUE, ANDREW	49	Keene st.	merchant
DONOHUE, JOHN	3 rear 104	Lawrence st.	spinner
DONAHOE, MICHAEL	979	Central st.	machinist
DONOVAN, WILLIAM H.	26	Madison st.	dealer
DOSTALER, ALPHONSE	24	Decatur st.	clerk
DOUGLASS, HARRY P.	37	Hurd st.	overseer
DOW, GEORGE P.	36	Lilley av.	plumber
DOW, JAMES	149	B st.	contractor

D

DOWD, MICHAEL J.	27	Harrison st.	insurance
DOWNES, EARL C.	14	Porter st.	clerk
DOYLE, DANIEL P.	6	Browns ct.	laborer
DOYLE, JAMES H.	101	Chelmsford st.	dealer
DOZOIS, HILAIRE	179	School st.	overseer
DRAINVILLE, AIME	25	James st.	shoemaker
DRAPEAU, WILLIAM	3	Hancock av.	carpenter
DREWETT, SIDNEY	72	Twelfth st.	trunk dealer
DRINAN, GEORGE	17	Burt st.	clerk
DRURY, HARRY S.	44	Hanks st.	plumber
DUBE, JOSEPH JR.	749	Merrimack st.	teamster
DUBUQUE, GEORGE H.	65	Branch st.	clerk
DUGDALE, JAMES P.	61½	Willie st.	tobacconist
DUMAS, ERNEST G.	55	Huntington st.	bookbinder
DUNFEY, JOHN M.	109	Mammoth road	real estate
DUNKLEE, HARRY W. F.	190	Pawtucket st.	draftsman
DUNLAP, HARRY	116	Hanks st.	merchant
DUNN, JAMES J.	882	Gorham st.	stone cutter
DUPONT, EXADIUS	447	Moody st.	gentleman
DURANT, CHARLES W.	74	Chapel st.	engraver
DUTTON, WALTER L.	11	Third av.	foreman
DWYER, JOHN F.	4	Oak st.	painter
DWYER, WILLIAM E.	154	Charles st.	barber

E

EAGAN, MICHAEL	113	Pleasant st.	laundry
EAMES, MELVIN,	60	West Sixth st.	pattern maker
EASTMAN, HENRY F.	327	East Merrimack st.	draughtsman
EASTMAN, RAYMOND W.	96	West st.	operative

E

EATON, CHARLES W.	108	Myrtle st.	broker
EATON, DANIEL A.	107	Myrtle st.	insurance clerk
EATON, ROBERT H.	12	Nesmith st.	asst. treasurer
EDGELL, FRED N.	117	Andover st.	collector
EDWARDS, ARTHUR S.	583	Central st.	clerk
EDWARDS, CHARLES F.	196	Hale st.	designer
EGAN, MICHAEL J.	53	Lilley av.	merchant
ELLINGWOOD, EDWARD	56	Huntington st.	druggist
ELLIOTT, HERBERT E.	36	Leverett st.	manufacturer
EMERSON, FRED B.	29	Burt st.	treasurer
ELLIOTT, ROBERT H.	25	Fairview st.	clerk
EMMOT, WALTER H.	106	Westford st.	paymaster
EMSLEY, GEORGE	20	Weed st.	comb maker
ENRIGHT, CORNELIUS F.	295	Thorndike st.	painter
ERSKINE, CHARLES M.	138	Mt. Vernon st.	real estate
ESTABROOK, HOWARD M.	65	Tolman av.	clerk
ESTABROOK, OLIVER B.	264	Appleton st.	trimmer
EVANS, FRED F.	1354	Gorham st.	grocer
EVANS, FREDERICK	9	Blossom st.	marble cutter
EVANS, GEORGE C.	34	Thirteenth st. ..	hay and grain dealer
EVANS, LEONARD JR.	30	Parkview av.	mechanic

F

FAGAN, FRANCIS M.	18	Newhall st.	clerk
FAGAN, JAMES M.	18	Newhall st.	fruit dealer
FAGAN, JOHN H.	18	Newhall st.	janitor
FAIRBURN, GEORGE	173	Stackpole st.	provisions
FALLON, FRANK J.	11	Little st.	machinist
FARLEY, GEORGE A.	142	Gorham st.	cigar manufacturer

F

FARLEY, HUGH F.	202	Concord st.	clerk
FARLEY, JOSEPH	17	Watson st.	barber
FARRELL, JOHN J.	127	Cross st.	machinist
FARRINGTON, WILLIS	234	Nesmith st.	manufacturer
FAULKNER, FRANCIS E.	62	Lagrange st.	clerk
FAULKNER, JOHN A.	32	Belmont av.	manufacturer
FAVREAU, WILLIAM A.	514	Moody st.	clerk
FAY, EDGAR G.	5	Robbins st.	clerk
FAY, FREDERICK T.	371	East Merrimack st.	druggist
FAY, HENRY J.	70	Lawrence st.	salesman
FAY, JOSEPH F.	1	Mt. Pleasant st.	farmer
FAY, PAUL F.	99	So. Walker st.	machinist
FECTION, ALEXIS L.	27	Shaw st.	bookkeeper
FEE, THOMAS F.	158	Concord st.	tailor
FELLOWS, LCUAN B.	113	Shaw st.	painter
FELS, AUGUST	989	Lakeview av.	manufacturer
FELS, MAX W.	989	Lakeview av.	clerk
FELTON, HENRY F.	386	Andover st.	organist
FENDERSON, CHARLES H.	429	Worthen st.	machinist
FENNELL, NICHOLAS J.	178	West London st.	barber
FERRIN, GEORGE W. JR.	896	Middlesex st.	operative
FIELD, ALBERT L.	1057	Gorham st.	druggist
FIFE, JAMES	46	Merrill st.	machinist
FIFIELD, GEORGE W.	1180	Middlesex st.	manufacturer
FINNERTY, HUGH	191	Fayette st.	laborer
FINNERTY, PATRICK J.	594	Central st.	laborer
FIRTH, RYLAH	57	Midland st.	overseer
FITZGERALD, PATRICK	159	Broadway	clerk
FITZGIBBON, PATRICK	619	Gorham st.	shoemaker
FLANAGAN, FRANK P.	22	Westford st.	clerk
FLANDERS, CHARLES H.	8	Osgood st.	foreman

F

FLANNAGAN, JOHN J.	83	Chestnut st.	operative
FLEMING, JAMES H.	92	John st.	operative
FLEMING, SAMUEL	75	Hampshire st.	janitor
FLEMINGS, FREDERICK J.	393	High st.	paper dealer
FLEMINGS, JAMES F.	35	Oak st.	clerk
FLETCHER, BENJAMIN	129	Church st.	agent
FLETCHER, BENJAMIN HILL ..	125	Fulton st.	mechanic
FLETCHER, CHARLES W.	499	High st.	clerk
FLETCHER, EDWIN L.	81	Holyrood av.	wholesale grocer
FLETCHER, WILLIAM B.	164	Smith st.	clerk
FLOOD, JAMES H.	468	Rogers st.	clerk
FLOOD, TERRENCE E.	61	Pleasant st.	operative
FLYNN, EUGENE F.	522	Lawrence st.	finisher
FLYNN, SIMON	205	Cross st.	machinist
FLYNN, JAMES A.	12	Cedar st.	printer
FOISEY, JOSEPH A.	327	Hildreth st.	baker
FOLSOM, FRED P.	154	Shaw st.	clerk
FOLSOM, HENRY W.	77	Mt. Vernon st.	overseer
FORTIN, ANTOINE	R 417	Moody st.	clerk
FORTIER, JOSEPH G.	235	Ludlam st.	grocer
FOSTER, BENAJMIN F.	68	C st.	second hand
FOSTER, FRED A.	14	Royal st.	overseer
FOSTER, HIRAM A.	177	Tremont st.	machinist
FOSTER, QUINCY A.	41	D st.	blacksmith
FOX, THOMAS H.	427	Chelmsford st.	machinist
FOYE, FRANK J.	469	Pine st.	clerk
FRASER, ALLAN	13	McKinley av.	clothing
FRAWLEY, HENRY J.	697	Middlesex st.	knitter
FRECHETTE, WILFRED	211	Aiken st.	merchant
FREEMAN, BENJAMIN F.	25	Ft. Hill av.	lighting dept.
FREEMAN, CHARLES T.	648	Broadway	grocer

F

FREEMAN, JAMES E.83 Andrews st.grocer
 FRENCH, ALBERT F.213 Parkview av.clerk
 FRENCH, ARTHUR J.35 Victoria st.paper cutter
 FROST, CHANNING A.1677 Middlesex st.dealer
 FROST, CHARLES H.26 Central st.jeweler
 FRYE, AUSTIN A.105 Eighteenth st.clerk
 FULLER, JOSEPH F.258 East Merrimack st.agent
 FULTON, ROBERT S.27 Myrtle st.clerk

G

GAGNON, ARTHUR J.466 Merrimack st.dentist
 GAHAGAN, EDWARD W.205 Church st.clerk
 GALE, CHARLES A.23 Jenness st.clerk
 GALLAGHER, CHARLES A.458 Lawrence st.operative
 GALLAGHER, CHARLES J.110 Pleasant st.druggist
 GALLAGHER, JAMES J.168 Cumberland Roadcigars
 GALLAGHER, JOHN J.58 Third st.operative
 GALLAGHER, PETERrear 85 Lakeview av.hair dresser
 GALLAGHER, THOMAS J.1 Hampshire pl. J. C. Ayer Co.
 GALLAGHER, WILLIAM H.128 Ennell st.insurance agent
 GARDNER, EVERETT M.198 Holyrood av.architect
 GARDNER, MILES C.497 School st.clerk
 GARMON, JOSEPH A.76 Nineteenth st.J. C. Ayer Co.
 GARVEY, MICHAEL J.203 Broadwayliquor dealer
 GARVEY, THOMAS F.75 Aiken av.clerk
 GATES, HENRY K.400 East Merrimack st.coal dealer
 GATES, ROYAL W.73 Gates st.belt manufacturer
 GAVIN, JAMES3 rear 357 Lakeview av.machinist
 GERRY, EDGAR A.27 Humphrey st.express manager

G

GENEST, ARTHUR	111	Genoa av.	contractor
GEORGE, FRED A.	128	Hale st.	foreman
GIBSON, THOMAS	22	Lane st.	operative
GILBRIDE, JOHN J.	9	Prospect st.	laborer
GILL, EDMUND J.	178	Adams st.	machinist
GILMORE, ELBERT J.	94	Vernon st.	clerk
GILLESPIE, JOHN T.	110	Durant st.	clerk
GILLIGAN, JAMES	16	Kinsman st.	currier
GILLMORE, WILLIAM H.	3-33	Chelmsford st.	shoe cutter
GILLOGLEY, OWEN	27	Walnut st.	laborer
GILLON, HUGH F.	84	Bartlett st.	editor
GILLOW, JOSEPH S.	258	Wentworth av.	contractor
GILMORE, ROBERT J.	95	Jenness st.	railroad
GILMORE, WILLIAM	39	Walnut st.	clerk
GINTY, PHILIP	1017	Central st.	slater
GLIDDEN, CHARLES J.	1131	Middlesex st.	telephone
GODDARD, CHARLES R.	30	Marlborough st.	paymaster
GOING, RUSSELL S.	51	Marginal st.	cashier
GOLDBERRY, BERNARD	1	Elm pl.	spinner
GOLDINGBERG, SALEM	1	Ralph st.	merchant
GOOCH, MELVIN G.	661	Broadway	carpenter
GOODALL, SAMUEL	417	Dutton st.	watchman
GOODELL, HARLAN P.	14	Highland st.	dealer
GOODWIN, CHESTER S.	880	Gorham st.	finisher
GOOKIN, JAMES	300	Concord st.	furniture dealer
GORDON, JOHN G.	17	Loring st.	clerk
GORMAN, JAMES E.	412	Gorham st.	boots and shoes
GORMLEY, EDWARD F.	31	Washington st.	clerk
GORMLEY, JOSEPH H.	11	Lyon st.	clerk
GOULD, SUMNER S.	112	Fremont st.	manager

G

GOULDING, WILLIAM H.	123	Walker st.	slater
GOULET, JOSEPH W.	93	Lilley av.	baker
GRADY, JAMES F.	398	Lincoln st.	carpenter
GRADY, JOHN J.	492	Market st.	clerk
GRADY, WILLIAM S.	151	Rogers st.	dealer
GRANDCHAMP, NAPOLEON C.	12	Arthur av.	clerk
GRANT, ALBERT F.	244	Gibson st.	dry goods
GRANT, ALFRED T.	34	Willie st.	machinist
GRAY, ALANSON	18	Belmont st.	provision dealer
GRAY, ANDREW A.	19	Tolman av.	clerk
GRAY, ARTHUR L.	39	Burt st.	agent
GRAY, FRANK	76	Royal st.	clerk
GRAY, JAMES H.	23	Ellsworth st.	lather
GRAY, JAMES J.	19	Tolman av.	salesman
GRAY, JOHN J.	236	Plain st.	real estate
GRAY, MICHAEL J.	10	Kinsman st.	clerk
GRAY, PETER B.	71	Whipple st.	carpenter
GREATHEAD, SAMUEL A.	519	Broadway	clerk
GREEN, ALBERT H.	157	Dartmouth st.	draughtsman
GREEN, JOSEPH A.	150	Wilder st.	merchant
GREEN, LORIN	179	Warwick st.	railroad
GREEN, THOMAS A.	501	Gorham st.	lamplighter
GREENE, HARVEY B.	301	Foster st.	florist
GREENE, WILLIAM H.	396	Pine st.	automobiles
GREENWOOD, OTHELLO O.	180	Hale st.	dealer
GREENWOOD, HAMLET S.	12	Wilsendale pl.	clerk
GREGG, GEORGE V.	64	Central st.	tailor
GREGG, JOHN	112	Jackson st.	overseer
GREGOIRE, ALBERT	496	Moody st.	musician
GREGOIRE, DAVID S.	64	Grove st.	baker

G

GREGOIRE, PIERRE L.	496	Moody st.	musician
GRIFFIN, JOHN	161	Merrimack corp.	laborer
GRIMARD, ARTHUR J.	118	Merrimack st.	clerk
GRIMWOOD, ARTHUR C.	50	Puffer st.	clerk
GROVER, CHARLES F.	255	Branch st.	tel. manager
GROVER, FRED H.	123	Third st.	surveyor
GROVER, HERBERT E.	128	Third st.	barber
GUILD, ALBERT S.	26	Arlington st.	broker
GRIMOND, JOSEPH E.	41	Fourth av.	bookkeeper
GRIMARD, EUGENE J.	64	Butterfield st.	clerk
GUMB, HARRY M.	28	Anderson st.	stone cutter

H

HAGAN, JAMES J.	142	Church st.	machinist
HALL, CHARLES O.	526	Moody st.	provisions
HALL, THALLES P.	149	Stackpole st.	real estate
HALLORAN, DANIEL C.	546	East Merrimack st.	gardener
HALLOWELL, CHARLES E.	743	Bridge st.	machinist
HAM, HIRAM O.	184	School st.	carpenter
HAMEL, ALFRED	4	Arthur av.	machinist
HAMILTON, AMASA S.	38	Race st.	express
HAMILTON, CHARLES A.	11	Sixth st.	cabinet maker
HANSBURY, JAMES W.	29	Hastings st.	machinist
HANSON, HORACE R.	336	Worthen st.	machinist
HANSON, JAMES S.	584	Westford st.	trader
HAPGOOD, EDGAR	221	High st.	manufacturer
HAPGOOD, FRANK W.	538	Moody st.	machinist
HARLEY, PHILIP	46	Crosby st.	motorman

H

HARDEN, ALBERT K.	11	Read st.	clerk
HARDER, ELMER E.	135	Liberty st.	janitor
HARDY, WILLIAM	131	Colburn st.	boarding house
HARLEY, PHILIP	46	Crosby st.	motorman
HARMON, ERNEST W.	213	Shaw st.	clerk
HARRIGAN, WILLIAM H.	38	South Walker st.	clerk
HARRINGTON, JOHN H.	119	Fremont st.	publisher
HARRINGTON, JOHN J.	93	John st.	operative
HARRIS, ARTHUR W.	140	Andover st.	merchant
HARRIS, EUGENE A.	659	School st.	real estate
HARRIS, FRED E.	4	Wright st.	engineer
HARRISON, HARRY	24	Arthur st.	machinist
HART, DANIEL J.	84	School st.	baker
HARTWELL, CHARLES C.	109	Fourth av.	clerk
HARTWELL, GEORGE W.	159	Sayles st.	asst. supt. of streets
HASTINGS, JAMES S.	20	Barclay st.	decorator
HAWES, WILLIAM H.	59	Canton st.	merchant
HAWES, FRANK B.	105	Eleventh st.	clerk
HAWKES, LEVI W.	228	Wentworth av.	furniture dealer
HAYES, JAMES J.	85	French st.	barber
HAYES, JEREMIAH J.	66	Walker st.	operative
HAYNES, FRANK H.	430	Wilder st.	provision dealer
HEBERT, SAMUEL P.	23	Adams st.	grocer
HEENAN, JOHN C.	58	Church st.	laborer
HEERY, JAMES W.	80	Parkview av.	real estate
HERSEY, FREEMAN S.	123	Warwick st.	machinist
HEMMINGWAY, JOSEPH H.	139	Methuen st.	gentleman
HENDRICKS, JOHN T.	296	Tanner st.	laborer
HERRICK, JOSEPH S.	811	Central st.	dealer
HICKEY, CORNELIUS L.	20	Kinsman st.	spinner

H

HICKS, JOSEPH	71	Westford st.	clerk
HIGGINS, DANIEL J.	132	Church st.	operative
HIGGINS, PATRICK	872	Central st.	machinist
HIGGINS, TERRENCE F.	245	Concord st.	machinist
HIGGINS, WESLEY R.	82	Read st.	painter
HILL, EDGAR M.	16	Cottage st.	reporter
HILL, JAMES E.	94	Midland st.	inspector
HILLIARD, ASA B.	59	Royal st.	foreman
HOBBS, ALEXANDER F.	23	Merrimack corp.	superintendent
HOBSON, CHARLES H.	26	Hanks st.	manager
HOGAN, DANIEL E.	30	Fort Hill av.	bookkeeper
HOLDEN, GEORGE B.	363	Walker st.	assistant superintendent
HOLGATE, BENJAMIN	154	Avon st.	clerk
HOLGATE, SAMUEL	46	Bowditch st.	second hand
HOLLAND, WALTER H.	32	Pine Hill st.	mattress maker
HOLT, WILLIS S.	8	Hale st.	clerk
HOOLE, HENRY	66	Bartlett st.	machinist
HOPE, ARTHUR L.	10	Belmont st.	machinist
HORNBY, JAMES T.	41	Madison st.	clerk
HORNBY, WILLIAM A.	41	Madison st.	iron moulder
HORNER, JOHN P.	353	Westford st.	corset manf.
HOSMER, SAMUEL	42	Hamilton corp.	overseer
HOWARD, JAMES H.	19	Ellsworth st.	folder
HOWARTH, CHARLES A.	32	Prospect st.	designer
HOWE, ALFRED T.	4	Eighth av.	real estate
HOWE, EDWARD S.	981	Varnum av.	farmer
HOWE, FRANK W.	85	Fairmount st.	broker
HOWE, HARRY W. J.	4	Eighth av.	real estate
HOWE, WALTER H.	315	Summer st.	real estate
HOYT, FRANK	139	A st.	shoe dealer

H

HULL, GEORGE S.	17	Oakland st.	manufacturer
HUMPHRISS, FREDERICK G. ...	19	Crowley st.	weaver
HUNKING, ARTHUR W.	374	Stevens st.	civil engineer
HUNT, FRANK S.	44	Royal st.	clerk
HUNT, LONARD D.	234	Cabot st.	overseer
HUNT, WILLIAM F.	125	Stackpole st.	loom fixer
HUNTER, JAMES F.	102	Marginal st.	barber
HURD, FRANK W.	19	Harrison st.	treasurer
HUTCHINSON, HENRY C.	184	School st.	pattern maker
HYDE, DANIEL	436	Worthen st.	machinist
HYDE, MARTIN	5	Floyd st.	sash maker
HYLAN, EDWIN J.	28	Nesmith st.	manufacturer
HYLAN, EUGENE S.	28	Nesmith st.	manufacturer

I

ILSLEY, PHILIP H.	513	Westford st.	trade
INGHAM, FRANK B.	3	Osgood st.	bookkeeper
IRELAND, WILLARD F.	775	Broadway	machinist
IRVING, WILLIAM J.	rear 28	Walnut st.	weaver
IRWIN, JOHN M.	83	Pine st.	wholesale confectioner

J

JACOBS, HENRY H.	119	Fulton st.	carpenter
JACOBS, HERBERT M.	176	Westford st.	carpenter
JACQUES, GEORGE D. JR.	55	Rock st.	machinist

J

JALBERT, JOSEPH	100	Fourth av.	contractor
JAMESON, FRANK E.	59	Emery st.	foreman
JAMESON, JAMES	139	Concord st.	machinist
JANVRIN, JOSEPH A.	51	Fifth st.	clerk
JAQUES, FRANK M.	80	Eighteenth st.	contractor
JAQUES, SILAS H.	120	Walker st.	clerk
JEFFERS, GEORGE B.	15	Auburn st.	operative
JENNESS, FRED W.	710	Chelmsford st.	dealer
JENNINGS, CHESTER S.	239	Stevens st.	draughtsman
JENNISON, GEORGE H.	45	Kirk st.	dentist
JENSEN, OTTO	384	Walker st.	moulder
JOHNSON, COOLIDGE R.	12	Broadway	watchman
JOHNSON, FRANCIS	494	Lawrence st.	dealer
JOHNSON, FRANK	102	Dummer st.	decorator
JOHNSON, FRANKLIN E.	19	Robbins st.	clerk
JOHNSON, HENRY J.	328	Suffolk st.	clerk
JOHNSON, ISAAC G.	317	Chelmsford st.	carpenter
JOHNSON, MICHAEL J.	328	Suffolk st.	musician
JOHNSON, THOMAS J.	23	Lombard st.	bookkeeper
JOHNSON, WILLIAM J.	47	Kirk st.	milliner
JONES, EDWARD A.	342	Walker st.	machinist
JONES, HERBERT W.	90	Westford st.	clerk
JOY, CALVIN L.	584	Bridge st.	carpenter

K

KANE, PATRICK F.	37	Elm st.	grocer
KEEGAN, THOMAS	37	Alder st.	watchman
KEEGAN, THOMAS M.	20	Ellsworth st.	janitor

K

KELLEY, GEORGE A.	151	Branch st.	clerk
KELLEY, HENRY F.	7	Richmond st.	machinist
KELLEY, JOHN A.	58	West Third st.	painter
KELLEY, JOHN F.	11	Burnside st.	carpenter
KELLEY, WILLIAM A.	799	Princeton st.	merchant
KENNEDY, DANIEL	2	rear 42 Keene st.	mattress maker
KENNEDY, WILLIAM R.	114	Warwick st.	electric trimmer
KENNESON, HARRY A.	70	Rock st.	blacksmith
KENNEY, ROBERT E.	1	West View st.	clerk
KERWIN, EDWARD D.	36	Royal st.	steam fitter
KEYES, HENRY F.	372	Broadway	gentleman
KEYES, HENRY J.	322	Merrimack st.	clerk
KEYES, JULIAN B.	102	Third st.	bank teller
KIDDER, AMASA N.	24	Hastings st.	stone cutter
KIDDER, CHARLES F.	1	Spaulding st.	clerk
KIERNAN, PATRICK	35	Ludlam st.	loom fixer
KILBRIDE, PATRICK	14	Stanley st.	provision dealer
KILPATRICK, JOHN	107	South Loring st.	carpenter
KILLPARTRICK, SAMUEL W.	1057	Middlesex st.	fruit dealer
KIMBALL, LEROY S.	50	Kirk st.	roll coverer
KING, FRANCIS T.	69	Chestnut st.	clerk
KING, JOHN C.	219	E. Merrimack st.	clerk
KINGSBURY, ALPHEUS R.	153	Smith st.	blacksmith
KINGSBURY, JOHN M.	1087	Bridge st.	provision dealer
KINNEY, EDWIN E.	108	Westford st.	dentist
KIRBY, CHARLES P.	16	Walnut st.	machinist
KITTREDGE, ABNER L.	101	Myrtle st.	merchant
KNAPP, HORACE H.	292	High st.	agent
KNOWLTON, HARRY W.	95	Harvard st.	clerk

L

LABATTE, JOSEPH	72	Cabot st.	tailor
LACOUTURE, JOSEPH S.	51	Rock st.	clerk
LAFLEUR, FREDERICK	130	Aiken st.	barber
LAGASSE, SIMEON	335	Hildreth st.	real estate
LAMOUREAUX, ANSELME	13	Second av.	tailor
LAMSON, EDWARD F.	132	First st.	Clerk
LANDERS, WILLIAM H.	397	Dutton st.	overseer
LANE, STEPHEN H.	4	Pine st.	carpenter
LONGEVIN, FELIX D.	34	Pine Hill st.	machinist
LANOUE, EMERY	230	Riverside st.	carpenter
LARRABEE, GEORGE C.	15	Corner st.	clerk
LAFLEUR, FREDERICK	130	Aiken st.	barber
LAFONTAINE, ALEXANDER	477½	Moody st.	clerk
LAGASSE, SIMON	335	Hildreth st.	real estate
LAKE, FRED	100	Mt. Washington st.	manager
LAMBERTON, JOHN A.	40	B st.	editor
LAMEUREUX, FREDERICK A.	52	Mammoth Road	clerk
LAMSON, NATHAN P.	11	Porter st.	clerk
LAMSON, WILLIAM S.	227	Nesmith st.	mfgr.
LANE, WILLIAM F.	318	Central st.	bookkeeper
LANG, ARTHUR W.	16	Lipton st.	carpenter
LATOUR, PETER	26	Crawford st.	baker
LAVERY, JAMES A.	238	Pine st.	baker
LAVOIE, ARTHUR	2	Racine pl.	grocer
LAWRENCE, ABBOTT	53	Berkley av.	optician
LEARY, DENNIS J.	786	Broadway	insurance
LEARY, JOHN F.	410	Adams st.	clerk
LEARY, SANFORD P.	54	Lincoln st.	carpenter
LEAVITT, GEORGE E.	945	Middlesex st.	foreman
LEBLANC, ALFRED	89	Mammoth road	grocer

L

LEE, BERNARD F.	13	Willie av.	laborer
LEE, MICHAEL A.	8	Livermore st.	carpenter
LEE, THOMAS C.	455	High st.	insurance
LEITH, NORMAN	35	London st.	blacksmith
LEITH, WILLIAM H.	239	East Merrimack st.	grocer
LELAUCHEUR, JAMES	322	Salem st.	real estate
LENNON, THOMAS E.	84	Mt. Washington st.	liquor dealer
LEWIS, EDWARD J.	40	Abbott st.	machinist
LEWIS, FRED O.	47	Oakland st.	clerk
L'HEUREUX, JOSEPH H.	33	Bowers st.	ins. agent
LIBBEE, GEORGE F.	58	Wannalancit st.	trader
LIBBY, CHARLES F.	69	Robbins st.	manager
LIBBY, DAVID D.	7	Osgood st.	contractor
LIBBY, EDWARD C.	399	Stevens st.	clerk
LIDDELL, ANDREW	25	Twelfth st.	collector
LISTON, JAMES	368	Concord st.	machinist
LITTLE, JAMES C.	62	Middlesex st.	janitor
LITTLE, MOSES	77	Mansur st.	merchant
LIVINGSTON, CORNELIUS S.	208	Branch st.	clerk
LIVINGSTON, WILLIAM	77	Livingston av.	clerk
LORAIN, WILFRED C.	35	Puffer st.	pressman
LOVE, JOSEPH	17	McKinley av.	clerk
LOZO, NAPOLEON	124	Ford st.	clerk
LUNDBERG, FRANG G.	44	Fay st.	laundryman
LUNT, JASON	6	Broadway	machinist
LUSSIER, WILLIAM O.	6	Morey pl.	blacksmith
LYMAN, JOHN A.	98	Hastings st.	clerk
LYNCH, ANDREW J.	449	Middlesex st.	manufacturer
LYNCH, THOMAS J.	93	Andrews st.	laborer
LYNCH, THOMAS J.	31	Crowley st.	clerk

L

LYFORD, ALFRED E.295 Central st.civil engineer
 LYONS, JOHN K.7 Westford st.pin maker

M

MACK, MARTIN T.18 Lenton ct.lunch cart
 MADIGAN, MICHAEL A.23 Bassett st.marble polisher
 MAGEE, JOHN J.359 Lawrence st.grocer
 MAGUIRE, HENRY J. JR.31 Walker st.clerk
 MAGUIRE, THOMAS F.22 Varney st.advertising agent
 MAHONEY, JOHN J.244 Concord st.printer
 MAHONEY, JOHN P.41 Butterfield st.assessor
 MAKER, WILLIAM P.385 Worthen st.machinist
 MANCHESTER, JOHN18 Livermore st.janitor
 MANSEAU, J. CALIXTE813 Merrimack st.merchant
 MANSFIELD, GEORGE F.306 Wilder st.book binder
 MASON, EDWARD S.1 Boyles ct. Smith st.compositor
 MANSUR, WILLIAM L.Clitheroe st.tanner
 MARDEN, PHILIP S.11 Fairview st.editor
 MARDEN, ROBERT F.42 Huntington st.ins. agt.
 MARKHAM, MICHAEL J.334 Central st.dealer
 MARSHALL, JAMES G.1067 Gorham st.paymaster
 MARTIN, EDWARD F.543 Gorham st.grocer
 MARTIN, WILLIAM D.26 North st.tailor
 MAYBERRY, SOLOMON S.54 Jenness st.carpenter
 MAYNARD, MYRON A.53 London st.overseer
 McALEER, MICHAEL29 Chestnut st.operative
 McALOON, ANDREW8 Everett st.merchant
 McALVIN, HENRY J.40 Sixth st.watchman

M

McARDELL, EDWARD	.....50	West st.	.....machinist
McCAFFREY, ANDREW	.....14	Pond st.	.....laborer
McCAFFREY, JOHN H.	.....191	Pleasant st.	.....weaver
McCAFFREY, JOHN F.	.....247	School st.	.....carpet weaver
McCAFFREY, FRANCIS E.	6 rear 230	Fayette st.	.....operative
McCAFFREY, THOMAS	.....36	Davidson st.	.....operative
McCAFFREY, THOMAS J.	.....191	Pleasant st.	.....painter
McCANN, JAMES	.....rear 304	Adams st.	.....mule spinner
McCANN, PATRICK	.....412	Lincoln st.	.....laborer
McCARATHY, JOHN J.	.....244	Broadway	..... clerk
McCARATHY, JOHN P.	.....15	Fay st.	.....laborer
McCARATHY, JOHN P.	.....87	Kinsman st.	.....carder
McCLUSKY, WILLIAM J.	.....40	Union st.	.....student
McCORMACK, VINCENT W.	.....23	Fourth av.	.....pilot
McCORMICK, JOHN E.	.....108	Livingston av.	.....clerk
McCORMIK, PATRICK	.....16	Union st.	.....laborer
McCULLOUGH, JOHN	.....33	Chestnut st.	.....grocer
McDANIELS, WALTER H.	.....437	East Merrimack st.	....manufacturer
McDONALD, JOSEPH A.	.....402	Mammoth road	.....merchant
MacDOUGAL, JAMES	.....1019	Central st.	.....machinist
McELHOLM, DANIEL B.	.....117	Andover st.	.....weaver
McELROY, JOHN	.....305	Fairmount st.	.....conductor
McEVOY, PATRICK	.....109	Powell st.	.....painter
McGARRAHAN, JAMES	.....18	Hurd st.	.....machinist
McGAUVVRAN, WILLIAM H.	.....859	Bridge st.	.....clerk
McGILLY, PATRICK	.....112	Concord st.	.....wool sorter
McGLINCHEY, JEREMIAH	.....64	Gorham st.	.....clerk
McGRATH, JOHN	.....26	Cedar st.	.....printer
McGRATH, JOSEPH H.	.....88	Coburn st.	.....janitor
McGUINNESS, JAMES F.	.....119	Agawam st.	.....plumber

M

McHUGH, PATRICK B.	184	Smith St.	printer
McINTYRE, GEORGE E.	605	Wilder st.	machinist
McINTYRE, WILLIAM G.	19	Lombard st.	clerk
McINTOSH, GEORGE A.	201	Wilder st.	overseer
McKENNA, JOHN A.	26	Keene st.	laborer
McKENNA, PETER	237	Concord st.	machinist
MacKENZIE, DANIEL W.	198	Pine st.	clerk
McKEON, JAMES E.	184	Chelmsford st.	clerk
McKILLOP, CLYDE	11	Laurel st.	operative
McKINLEY, JOHN	50	Elm st.	clerk
McLAUGHLIN, JOHN F.	513	Lawrence st.	steam fitter
McLAUGHLIN, JOHN T.	229	Stackpole st.	confectioner
McMAHON, FRANK	539	Chelmsford st.	machinist
McMAHON, JOSEPH F.	rear 136	South st.	plumber
McMAHON, MICHAEL R.	51	Abbott st.	laborer
McMAHON, THADY	11	Watson st.	barber
McNABB, JOHN H.	108	Pleasant st.	laundry
McNALLY, JAMES	261	Thorndike st.	blacksmith
McNALLY, JAMES R.	121	South Highland st.	conductor
McNULTY, PHILIP	9	Lyon st.	clerk
McOSKER, JOHN F.	18	Marginal st.	clerk
McPARLAND, JOHN	73	Union st.	spinner
McQUADE, ARTHUR F.	65	Pleasant st.	foundry foreman
McQUADE, JOHN J.	40	Lyon st.	clerk
McQUADE, MICHAEL	65	Pleasant st.	overseer
McQUESTEN, ALBERT W.	118	D st.	clerk
McVEY, DANIEL F.	135	Gorham st.	plumber
MEAD, ASA W.	3	Wachusett st.	machinist
MEADE, WILLIAM V.	247	Gorham st.	clerk
MEALEY, JOHN R.	172	Howard st.	stencil cutter

M

MEEHAN, JOHN F.	215	Worthen st.	clerk
MELLEN, JOSEPH H.	51	Wamesit st.	clerk
MELLO, MANUEL P.	33	Powell st.	hairdresser
MELLOR, GEORGE H.	366	Westford st.	machinist
MELOY, WILLIAM J.	672	Chelmsford st.	stenographer
MERCIER, LOUIS	14	Ward st.	watch maker
MERRILL, CHARLES S.	1	Osgood st.	salesman
MERRILL, FRANK M.	156	Tenth st.	dealer
MEYER, WOLF	238	Appleton st.	tailor
MILLER, GEORGE W.	75	Howard st.	railroad
MILLER, HENRY	38	Sixth st.	real estate
MILLER, JOSEPH	32	Sheldon st.	clerk
MILLER, JOSEPH H.	284	Fletcher st.	clerk
MISKELLA, JAMES F.	35	Mead st.	clerk
MITCHELL, CHARLES F.	81	Dummer st.	clerk
MITCHELL, JAMES W.	79	Mt. Washington st.	carpenter
MOLLAHAN, JOHN J.	257	Concord st.	leather shaver
MOLLOY, ANDREW	130	Mt. Hope st.	beamer
MONAHAN, PATRICK R.	38	West Fifth st.	teamster
MONETTE, JOSEPH H.	186	Aiken av.	clerk
MONGEAU, GEOGE E.	444	Fletcher st.	merchant
MONGRAIN, WILBROD	23	Sarah av.	blacksmith
MOODY, GEORGE H.	43	South Canton st.	clerk
MOONEY, PATRICK O.	203	Moore st.	plumber
MOORE, PATRICK H.	381	Lincoln st.	gentleman
MOREY, FRANK L.	73	Sixth st.	carpenter
MORIN, JOSEPH U.	812	Merrimack st.	butter dealer
MORIN, OVILA	26	Orford st.	teamster
MORRISEY, FRANK T.	46	Albion st.	janitor
MORSE, EDWARD H.	785	Broadway	livery stable

M

MORTON, ALBERT H.	284	Gibson st.	superintendent
MOTLEY, GEORGE S.	95	Nesmith st.	gentleman
MULDOON, OWEN	259	Branch st.	laborer
MULDOON, THOMAS	427	Lincoln st.	piper
MULLANEY, JOHN J.	38	Sargent st.	plumber
MULLIN, DANIEL W.	959	Middlesex st.	coppersmith
MUNN, FRANCIS D. JR.	151	Methuen st.	grocer
MURLAND, JAMES	313	High st.	foreman
MURKLAND, WALTER E.	313	High st.	clerk.
MURPHY, FRANK B.	348	Wilder st.	real estate
MURPHY, JAMES A.	82	Hanks st.	overseer
MURPHY, JEREMIAH F.	165	Mt. Hope st.	clerk
MURPHY, JOHN D.	138	Cross st.	operative
MURPHY, JOHN H.	235	Hale st.	painter
MURPHY, MATHEW	280	East Merrimack st.	carpenter
MURRAY, FRANK	86	Fourth av.	blacksmith
MYERS, WILLIAM	12	Barrington st.	overseer

N

NAY, HOMER B.	382	Worthen st.	engineer
NEALE, ELISHA J.	349	Beacon st.	merchant
NELSON, CLARENCE H.	91	Mansur st.	carpenter
NESMITH, JOSEPH A.	229	Andover st.	gentleman
NESTOR, PATRICK F.	9	Alder st.	janitor
NEWHALL, HENRY L.	235	Mammoth road	paymaster
NICHOLS, ELIJAH M.	23	Hamilton corp.	boarding house
NICHOLS, GEORGE	65	Falmouth st.	printer
NICKERSON, DAVID H.	9	Wachusett st.	merchant
NOLAN, JOHN	844	Central st.	dealer
NORCOTT, WILLIAM W.	811	Westford st.	superintendent

N

NORCROSS, NICHOLAS G.69 Huntington st.insurance agent
 NUTTALL, GEORGE W.305 Summer st.clerk

O

O'BRIEN, JOHN32 Whipple st.blacksmith
 O'BRIEN, JOHN J.107 High st.wool sorter
 O'BRIEN, JOHN J.399 Worthen st.second hand
 O'BRIEN, PATRICK175 Broadway laborer
 O'CONNELL, JOHN J.61 Newhall stliquor dealer
 O'DONNELL, CONSTANTINE43 Wannalancit st.merchant
 O'DWYER, JEREMIAH J.148 Midland st.conductor
 O'CONNOR, MAURICE635 Market st.laborer
 O'CONNOR, MICHAEL J.900 Gorham st.stone cutter
 O'HARE, FRANK29 Bassett st.laborer
 O'HARE, JAMES159 Chapel st.teamster
 O'HARE, JOHN P.167 Warren ct.weaver
 O'HARE, STEPHEN836 Central st.clerk
 O'HEARN, PATRICK282 Riverside st.contractor
 O'HEIR, OCTAVIEN G. I.68 Lane st.merchant
 OLIVER, JOHN179 Varnum av.florist
 O'MEARA, MARTIN55 Cedar st.dealer
 O'NEIL, PATRICK E.22 Whipple st.clerk
 O'ROURKE, PATRICK J.70 Walker st.laborer
 ORT, JOHN J.18 Broadway blacksmith
 OSGOOD, JAMES A.92 Hastings St.printer
 O'SHEA, MICHAEL213 Concord st.machinist
 OSTERHOUT, FRED S.159 Middlesex st.livery
 O'SULLIVAN, HUMPHREY105 Butterfield st.shoe dealer
 O'SULLIVAN, JAMES105 Mt. Washington st.shoe dealer
 OWEN, GEORGE E.156 Andover st.accountant

P

PAGE, DUDLEY L.	n. s Whitehead av.	caterer
PAGE, HORACE C.	184 Pine st.	druggist
PAIGE, CHARLES D.	45 Thirteenth st.	clerk
PALMER, CHARLES D.	129 Fairmount st.	gentleman
PALMER, FORREST E.	25 Osgood st.	clerk
PALMER, SAMUEL B.	394 Beacon st.	grocer
PARADIS, ROBERT C.	200 French st.	reporter
PARENT, ALCIDE A.	821 Merrimack st.	clerk
PARENT, J. GEDEON	68 Cabot st.	hair dresser
PARENT, J. WILFRED	68 Cabot st.	shoemaker
PARK, ALBERT S.	28 Riverside st.	clerk
PARKER, ARTHUR W.	306 Pine st.	builder
PARKER, CHARLES A.	13 Second st.	painter
PARKER, NATHAN JR.	20 Grove st.	driver
PARKER, STANLEY M.	712 School st.	clerk
PARKER, WALTER L.	270 Wilder st.	manufacturer
PARTHENAIS, CHARLES H. ...	231 School st.	merchant
PARTHENAIS, DAVID A.	30 Phillips st.	merchant
PARTHENAIS, WILLIAM A.	16 Grand st.	dealer
PATTEE, ARTHUR M.	31 Waite st.	railroad
PEABODY, FRANK B.	23 Columbus av.	clerk
PEABODY, MORTON N.	161 Mt. Vernon st.	merchant
PEARSON, FRED H.	255 Foster st.	boots and shoes
PEARSONS, GEORGE F.	347 Westford st.	inventor
PEARSON, HARRIS C.	19 Seventh av.	baker
PEASE, MARK M.	159 Smith st.	musician
PELTIER, MERIL	130 Avon st.	confectioner
PENDERGAST, JOHN H.	95 Dummer st.	stone cutter
PENN, CHARLES A.	227 West London st.	carpenter
PENN, WILLIAM HENRY	262 London st.	contractor & builder
PEPIN, WILLIAM H.	442 East Merrimack st.	dentist

P

PEPPARD, PATRICK S.	43	Blossom st.	loom fixer
PERHAM, HAVEN C.....	19	Wannalancit st.	agent
PERRON, JOSEPH	470	Moody st.	hairdresser
PERSON, NILS		London st.	carpenter
PERSONS, ALBERT C.	629	Westford st.	roll coverer
PETERS, WILLIAM B.	16	Bryant st.	Gas Co.
PETERSON, GEORGE W.	37	So. Loring st.	ins. agent.
PEVEY, FRANKLIN S.	68	Dover st.	iron founder
PEVEY, JAMES A.	366	Walker st.	iron founder
PINDER, ALBERT	R. 239	Fairmount st.	gentleman
PICKERING, EDWARD H.	4	Bertram st.	asst. supt.
PRESTON, CHARLES R.	335	Thorndik est.	civil engineer
PIERCE, ABNER K.	419	Chelmsford st.	painter
PIHL, CARL G. A. F. W. E.....	45	Fay st.	engineer
PILLING, HERBERT	44	Harvard st.	shoe manufacturer
PILLING, JOHN B.	1199	Middlesex st.	shoe manufacturer
PINAULT, EDMUND J.	1	Ready av.	carriage painter
PINAULT, ZEPHRIN A.	97	Whitney av.	salesman
PINDAR, JOHN J.	159	Broadway	clerk
PINDER, ALBERT L.	64	Chapel st.	carpenter
PINGREE, HERBERT W.	468	Fletcher st.	carpenter
POLLARD, ARTHUR G.	110	Mansur st.	merchant
POLLARD, HARRY G.	96	Mansur st.	merchant
POTTER, WILLIAM H.	251	Gibson st.	clerk
POWERS, JOHN	169	Broadway	laborer
POWERS, JOHN T.	52	Claire st.	hair dresser
PRATT, CHARLES H.	19	Perrin st.	Gas Co.
PRATT, DWIGHT M.	25	Mt. Vernon st.	laborer
PRESCOTT, DUDLEY M.	23	Oak st.	plasterer
PRESTON, JAMES F.	246	Andover st.	manager
PRINCE, ARTHUR D.	5	Simpson st.	news dealer

P

PRINCE, GEORGE C.	5	Simpson st.	picture framer
PROCTOR, FRED W.	57	Walker st.	job express
PUCCELL, JOSEPH A.	123	Lakeview av.	machinist
PUFFER, FRED A. A.	13	Dover st.	dealer
PUFFER, FREEMAN W.	82	Warwick st.	confectioner
PUFFER, STEPHEN B.	942	Middlesex st.	manufacturer
PURCELL, WILLIAM C.	81	Sherman st.	clerk
PUTNAM, ADDISON, JR.	194	Nesmith st.	merchant
PUTNAM, FRANK E.	1210	Middlesex st.	restaurant
PUTNAM, FRANK H.	215	Stevens st.	clerk

Q

QUILL, FRANK, JR.	137	Congress st.	laborer
QUINN, JOHN J.	433	Worthen st.	operative
QUINN, MICHAEL	14	Fort Hill av.	woolen weaver
QUINN, THOMAS F.	151	High st.	operative
QUINN, THOMAS F.	511	Lawrence st.	steam fitter
QUIRBACH, HENRY C.	142	Gorham st.	merchant
QUIRK, WILLIAM	185	Adams st.	operative

R

RACICOT, ARTHUR A.	823	Moody st.	painter
RAFFERTY, MICHAEL T.	36	Cedar st.	hackman
RAMSDELL, DANIEL W.	94	D st.	teamster
RAND, GEORGE W.	46	Schafer st.	salesman
RANDLETT, FRED M.	8	Gates st.	fish dealer
READ, WILLIAM A.	228	Liberty st.	salesman
READY, DAVID E.	774	Broadway	grocer

R

REARDON, JOHN J.	46	Common st.	elevator man
REARDON, MICHAEL D.	516	Lawrence st.	clerk
REARDON, PATRICK	rear 95	Dummer st.	fireman
REDDING, DANIEL	45	Adams st.	jobbing
REDMOND, EDWARD L.	3	Masterson's yd.	clerk
REED, FRANK T.	1096	Bridge st.	fireman
REID, WILLIAM	7	Calvin st.	weaver
REIDY, MARTIN H.	172	School st.	manager
REILLY, JOHN J.	130	Coburn st.	weaver
RENAUD, SAMUEL JR.	602	Middlesex st.	dealer
REYNOLDS, BERNARD	174	Fourth av.	barber
RICHARDS, LYMAN H.	3	Ward pl., Fletcher st.	carpenter
RICHARDS, EDWARD S.	794	Merrimack st.	clerk
RICHARDS, ULYSSES S.	691	Merrimack st. ...	veterinary surgeon
RICHARDSON, ALBERT J.	161	Hildreth st.	shuttle maker
RICHARDSON, EDWARD J.	40	Lincoln st.	clerk
RICHARDSON, HARRY T. B. ...	365	Beacon st.	baker
RICHARDSON, HENRI E.	1460	Middlesex st.	clerk
RICHARDSON, WILLIAM W.	7	Willie st.	grocer
RIDDICK, HERBERT C.	201	Smith st.	clerk
RILEY, JOHN	110	Lewis st.	laborer
RILEY, PHILIP, JR.	124	High st.	upholsterer
RIORDAN, JOHN H.	136	Fort Hill av.	insurance
RIORDAN, PATRICK H.	58	Second av. ...	machinist
ROARK, ANDREW F.	455	Market st.	blacksmith
ROARK, MILES	28	Lyon st.	insurance agent
ROBERT, ARTHUR R.	33	Fifth av.	clerk
ROBERT, VITAL	33	Fifth av.	real estate
ROBINSON, HENRY O.	34	Webster st. ..	boarding house keeper
ROBINSON, JAMES P.	101	Blossom st.	moulder
ROCHE, GEORGE B.	12	Cady st.	plumber

R

ROGERS, JOHN F.	29	Cedar st.	undertaker
ROGERS, PATRICK	28	Cedar st.	undertaker
ROLLINS, WINSTON I.	33	Fourth st.	dealer
ROONEY, GEORGE W.	14	Madison st.	second hand
ROPER, GEORGE A.	335	Walker st.	clerk
ROURKE, FRED H.	777	Central st.	merchant
ROUNTREE, ALEXANDER E. ...	147	Pleasant st.	clerk
ROUSSEAU, DONAT	195	Salem st.	shoemaker
ROUSSEL, MARCEL	77	Ludlam st.	butcher
ROUSSIN, EUGENE	3	Salem st.	editor
ROWLANDSON, WILLIAM E. ...	203	Pleasant st.	dyer
ROY, JOSEPH G.	10	Dane st.	operative
RUNELS, CHARLES	321	Thorndike st.	contractor
RUNELS, GEORGE H.	240	Gibson st.	clerk
RUSHWORTH, CHARLES B.	58	South Loring st.	agent
RUSSELL, ALONZO L.	12	Coral st.	agent
RUSSELL, ASA C.	331	Wilder st.	manufacturer
RUSSELL, CYRUS W.	115	Mt. Vernon st.	grocer
RUSSELL, EUGENE G.	226	Gibson st.	real estate
RUSSELL, JOHN L.	17	Victoria st.	manager
RYAN, ALBERT J.	384	High st.	real estate
RYAN, JOHN	789	Westford st.	brass founder
RYAN, PATRICK H.	11	Burt st.	brass founder

S

SADLIER, JOHN A.	171	Chapel st.	laborer
SALMON, EDWARD A.	186	School st.	overseer
SANBORN, AMOS H.	26	Norcross st.	photographer
SANBORN, EDWARD P.	79	Royal st.	builder
SANBORN, FRED W.	44	Fred st.	carpenter

S

SANBORN, WALTER E.	79	Royal st.	clerk
SARGENT, ALEXIS D.	29	Hanks st.	clerk
SARGENT, GEORGE A.	49	Andover st.	operative
SAUNDERS, ARTHUR W.	94	Twelfth st.	manufacturer
SAUNDERS, FRANCIS E.	119	Middlesex st.	overseer
SAUNDERS, ORLANDO	87	Nesmith st.	agent
SAUNDERS, THOMAS A.	91	Tremont st.	undertaker
SAVAGE, PETER H.	78	Mt. Washington st.	undertaker
SAWYER, ORRIN A.	134	Walker st.	inventor
SAWYER, WESLEY	222	Lincoln st.	physician
SCANNELL, BARTHOLOMEW ..	535	Westford st.	boiler maker
SCANNELL, CORNELIUS	62	Cambridge st.	boiler maker
SCOTT, FRANK	54	Hampshire st.	overseer
SCOTT, GEORGE N.	258	Central st.	wood turner
SCOTT, JAMES	176	School st.	gentleman
SCOTT, SAMUEL	30	Cabot st.	dealer
SCRIBNER, GEORGE A.	158	Westford st.	machinist
SENER, WILLIAM F.	219	Ludlam st.	overseer
SHADDUCK, EDWIN D.	19	Columbus av.	merchant
SHANNESY, GEORGE W.	180	Grand st.	wheelwright
SHARROW, FREDERICK S.	16	Walnut st.	tailor
SHAW, EDWIN T.	65	Dover st.	asst. treasurer
SHAW, FRANCIS E.	698	Westford st.	gentleman
SHEA, EUGENE A.	69	D st.	plumber
SHEA, JAMES A.	22	Bleachery st.	plasterer
SHEA, JOHN E.	28	Butler av.	currier
SHEDD, FREEMAN B.	396	Andover st.	manufacturer
SHEEHY, JAMES	66	Andover st.	dealer
SHEPARD, CHARLES S.	254	Parkview av.	machinist
SHEPHERD, ROBERT J.	82	Fort Hill av.	B. & M. R. R.
SHERBURNE, JOHN W.	55	Marlborough st.	druggist

S

SHERMAN, ARTHUR W.	339	Westford st.	clerk
SHERMAN, LEONARD F.	148	Princeton st.	manufacturer
SHERWELL, WILLIAM M.	2	Barton av.	superintendent
SHERWOOD, EDWARD L.	11	Columbus av.	overseer
SHERWOOD, FRANK J.	79	Vernon st.	glue manufacturer
SILVER, FRED W.	94	South Loring st.	machinist
SIMMONS, RALPH A.	31	Princeton st.	clerk
SIMPSON, JOHN A.	67	Methuen st.	contractor
SLATER, JOSEPH F.	611	Wilder st.	gentleman
SMART, CHARLES E.	104	D st.	grocer
SMITH, CALEB L.	878	Chelmsford st.	grocer
SMITH, CHARLES P.	314	Nesmith st.	gentleman
SMITH, CHESTER F.	270	Gibson st.	salesman
SMITH, DAVID W.	71	French st.	machinist
SMITH, ETHAN A.	84	Marlborough st.	real estate
SMITH, FREDERICK A.	13	Kinsman st.	laborer
SMITH, HENRY	261	Fayette st.	barber
SMITH, LORENZO E.	122	Mammoth road	bookkeeper
SMITH, PRINCE	4	Agawam st.	wool sorter
SMITH, WILLIAM J.	12	Fulton st.	laborer
SNOW, SAMUEL E.	89	School st.	mason
SOUTHAM, BROOK	13	Cambridge pl.	shipper
SOUTHWORTH, WILLIAM S.	63	Kirk st.	mill agent
SPALDING, WILLIAM B.	1	Center st.	real estate
SPALDING, WILLIAM H.	86	Thorndike st.	merchant
SPEAR, FREDERICK A.	576	Westford st.	agent
SPICER, FRANK M.	85	Royal st.	electric railway
SPIERS, JAMES A.	23	Phillips st.	pattern maker
SPROAT, FRANK E.	57	Claire st.	operative
STAFFORD, ORANGE	321	Hildreth st.	gentleman
STACEY, DUANE P.	75	Beacon st.	clerk

S

STACK, FRANK P.	81	West Third st.	painter
STAFFORD, EBEN B.	301	Mammoth road	merchant
STANTON, JOHN B.	23	Newhall st.	woll sorter
STAPLES, ARTHUR	55	Franklin st.	contractor
STAPLES, GEORGE N.	559	Chelmsford st.	clerk
STEPHENS, SAMUEL G.	47	South Walker st.	draughtsman
STEVENS, ALMON C.	43	Hildreth st.	sexton
STEVENS, C. BROOKS	403	Andover st.	treasurer
STEVENSON, FINDLAY	45	Princeton st.	clerk
STEWART, JOHN W.	45	Thirteenth st.	plumber
STICKNEY, FREDERICK W.	53	Third st.	architect
STICKNEY, ROLLIN W.	61	Twelfth st.	salesman
STILES, ALBA G.	72	Varney st.	retired
STIMPSON, WALTER W.	441	Dutton st.	machinist
ST. JEAN, GILLAUME	115	Aiken st.	clerk
STOCKS, HARRY	141	Parkview av.	bookkeeper
STOPHERD, ALBERT	10-76	Congress st.	second hand
STOTT, CHARLES W.	173	Nesmith st.	manufacturer
STOTT, CHARLES A.	173	Nesmith st.	manufacturer
STOTT, JOHN W.	36	Marlborough st.	accountant
STOTT, THOMAS	282	Pawtucket st.	manufacture
STOUGHTON, WILLIS H.	162	Powell st.	job express
STOWELL, CHARLES H.	99	Fairmount st.	J. C. Ayer
STOWELL, FRANK E.	179	Foster st.	undertaker
SULLIVAN, CORNELIUS	180	Broadway	barber
SULLIVAN, CORNELIUS F.	215	Stackpole st.	barber
SULLIVAN, DENNIS A.	578	Market st.	piper
SULLIVAN, DENNIS A.	164	Wentworth av.	editor
SULLIVAN, FRANK J.	45	Wamesit st.	clerk
SULLIVAN, JAMES F.	318	Adams st.	laborer
SULLIVAN, JOHN J.	171	Chapel st.	painter

S

SULLIVAN, JOHN J.	181 Mt. Vernon st.	merchant
SULLIVAN, MARTIN W.	16 Lagrange st.	carpenter
SULLIVAN, MICHAEL	5 Lagrange st.	operative
SULLIVAN, MICHAEL E.	330 Concord st.	barber
SUTCLIFFE, WILLIAM T.	31 Runels pl.	music teacher
SWAN, ALBERT J.	23 Congress av.	clerk
SWEATT, ALBION	62 Eighteenth st.	carpenter
SWEATT, ELLSWORTH E.	432 Hildreth st.	carpenter
SYLVESTRE, JAMES O.	242 Mammoth road	clerk

T

TAFT, HERBERT O.	22 Burt st.	clerk
TAFF, RICHARD	35 Worthen st.	manufacturer
TALBOT, HARRY L.	15 Fairview st.	salesman
TANSEY, JOHN F.	30 Pleasant st.	coachman
TARR, EUGENE J.	242 Branch st.	salesman
TAYLOR, FRANK B.	318 Central st.	mason
TAYLOR, GEORGE A.	337 High st.	caterer
TAYLOR, GEORGE H.	41 Nichols st.	stable keeper
TAYLOR, LUKE B.	8 Wachusett st.	weaver
TEWKSBURY, CHARLES S.	352 Walker st.	machinist
THATCHER, WILLIAM H.	90 South Whipple st.	mill operative
THERIAULT, FREDERIC	9 Mt. Grove st.	machinist
THOMPSON, HENRY M.	298 Pawtucket st.	manufacturer
THOMPSON, JOHN	359 Central st.	dyer
THOMPSON, WILLIAM M.	3 Bachelder pl.	ice man
THORNE, JOHN JR.	15 Fernald st.	clerk
THORNTON, CHARLES E.	26 Ames st.	janitor
THORNTON, JOSEPH B.	134 Gorham st.	laborer
TIGHE, FREDERICK F.	72 South st.	clerk

T

TIGHE, JOHN	.....190	Tilden st.	.....operative
TILTON, CHARLES E.	.....103	South Walker st.	.....compositor
TILTON, FREDERICK N.	.....57	South Walker st.	.....printer
TIMMONS, FREDERICK J.	.....959	Middlesex st.	.....clerk
TINCKER, CLARENCE E.	.....6	Astor st.	.....clerk
TITUS, AFTON G.	.....448	Stevens st.	.....checker B. & M. R. R.
TRUE, MITCHELL C.	.....606	Westford st.	.....clerk
TURCOTTE, HOMER L. P.	.....169	Salem st.	.....janitor
TURCOTTE, LOUIS P.	.....22	Riverside st.	.....dealer
TURCOTTE, LUCIEN F. L.	.....22	Riverside st.	.....clerk
TURGEON, LOUIS G.	.....386	Fletcher st.	.....druggist
TURNER, CLARKSON H.	.....23	Perrin st.	.....Gas Co.
TURNER, JOHN D.	.....42	Columbus av.	.....machinist
TUTTLE, CLINTON P.	.....28	B st.	.....clerk
TYRRELL, JOHN E.483	Lawrence st.dealer

U

URANN, CHARLES F.408	Lincoln st.foreman
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V

VARNEY, EDWARD S.20	Ash st.printer
VAUGHN, PATRICK P.14	Leverett st.plumber
VAYO, NAPOLEON	.....15	Garnet st.	.....painter
VIGEANT, PAUL	.....20	Dodge st.	.....hay and grain
VIGEANT, FREMONT J.	.....107	Merrimack st.	.....clerk
VIGEANT, TIMOTHEE	.....489	Moody st.	.....grocer
VIGNEAULT, EDMUND J.	.....476	Moody st.	.....clerk
VINCELETTE, EDOUARD	.....55	White st.	.....musician

V

VINCENT, JOHN	94	Ford st.	provisions
VINEY, WILLIAM B.	22	Tyler st.	clerk
VINING, ALONZO H.	27	Eighth av.	carpenter
VINING, HIRAM	36	Fourth av.	carpenter

W

WADLEIGH, JUDE C.	139	Hildreth st.	superintendent
WAHLGREN, CARL A.	134	Gorham st.	cigar maker
WALSH, JAMES P.	164	Coburn st.	plasterer
WALKER, JOHN J.	19	Paige st.	elevator
WALKER, ROGER L.	80	Chestnut st.	electrician
WALKER, THOMAS C.	80	Chestnut st.	druggist
WALLACE, TIMOTHY J.	17	Swift st.	laborer
WALKER, FRANK A.	287	Stevens st.	manager
WALKER, EDWARD C.	236	Chelmsford st.	machinist
WALKER, JAMES F.	43	Seventh st.	overseer
WALSH, JOHN F.	5	Watson st.	operative
WALSH, THOMAS	104	Eleventh st.	superintendent
WALSH, WILLIAM H.	86	Congress st.	dyer
WARBURTON, JOHN	10	Globe Terrace	director
WARREN, CHARLES H.	25	Princeton st.	dealer
WARREN, JEREMIAH F.	27	Cross st.	painter
WARREN, OSCAR E.	222	Worthen st.	operative
WASHBURN, CHARLES D.	84	West Sixth st.	grocer
WASHBURN, GEORGE B.	179	Humphrey st.	reporter
WATERWORTH, CHARLES R.	78	Otis st.	tool maker
WATSON, GEORGE B.	30	First st.	clerk
WEAVER, FRANK L.	479	Westford st.	roofer
WEBSTER, HERBERT E.	251	Foster st.	salesman
WELCH, FREDERICK F.	20	Rockdale av.	clerk

W

WELCH, PATRICK F.	537	Lawrence st.	steam fitter
WELCH, RICHARD	174	Hale st.	tailor
WELCH, WILLIAM F.	34	Cedar st.	carpenter
WESTWOOD, JOHN S.	10	Simpson pl.	druggist
WHALEN, CHARLES B.	20	Hudson st.	tanner
WHEELER, ALBERT H.	710	Merrimack st.	merchant
WHEELER, RALPH L.	34	Waugh st.	mechanic
WHELTON, MATTHEW	283	School st.	clerk
WHIPPLE, SIMON F.	40	Berkley av.	advertiser
WHITCOMB, IRVING	48	South Walker st.	dealer
WHITE, HENRY G.	131	Grove st.	clerk
WHITE, HERBERT R.	80	Livingston av.	salesman
WHITE, WILLIAM T.	72	Belmont av.	manufacturer
WHITNEY, FRED H.	596	Beacon st.	bookkeeper
WHITTET, CHARLES A.	217	Moore st.	florist
WHITTET, DAVID W.	20	Crowley st.	carpenter
WHITTIER, JOHN K.	76	Bellevue st.	assistant superintendent
WHITTIER, STEPHEN T.	17	Davenport st.	paymaster
WIGGIN, BURTON H.	1010	Middlesex st.	contractor
WIGGIN, FRANK B.	28	Bellevue st.	bookkeeper
WIGGIN, ERVIN L.	35	Dover st.	grocer
WIGHT, GEORGE H.	93	Durant st.	piper
WILDER, OLIVER D.	6	Coral st.	grain dealer
WILDER, WESLEY M.	6	Coral st.	clerk
WILLMAN, CLARENCE T.	66	Chambers st.	operative
WILLIS, WILLIAM T.	35	Ellsworth st.	stone mason
WILLMAN, DAVID, JR.	8	Hale st.	wool sorter
WILLS, GARDNER	15	Hampshire st.	clerk
WILSON, CHARLES V. S.	81	Lane st.	foreman
WILSON, JOHN C.	7	Robinson st.	gentleman
WILSON, JOSEPH M.	22	Seventh av.	butcher

W

WING, CHARLES T.	92	Stevens st.	designer
WINN, JOHN J.	29	South Whipple st. ...	mattress maker
WIRT, EDWARD R.	163	Andover st.	upholsterer
WOOD, EDWARD N.	184	A st.	insurance
WOOD, GEORGE H.	176	Branch st.	jeweler
WOOD, MILLARD F.	51	Whitney av.	jeweler
WOODIES, FRED	74	Gates st.	clerk
WOODIES, WILLIAM H.	381	Dutton st.	overseer
WOODWORTH, HENRY P.	15	Hawthorne st.	lumber dealer
WORTHEN, GEORGE E. JR.	27	Forrest st.	machinist
WOTTON, CHARLES A.	26	Loring st.	laundryman
WRAGG, THOMAS	13	Methuen st.	overseer
WRIGHT, FRANK B.	57	Willow st.	carpenter
WRIGHT, HERBERT A.	27	Warwick st.	clerk
WRIGHT, WALTER G.	27	Osgood st.	machinist
WYMAN, MOSES	62	Middlesex st.	lodging house
WYMAN, RANDALL T.	169	Middlesex st.	boarding house

Y

YORKE, JOSEPH B.	13	Oakland st.	pressman
YOUNG, CHARLES F.	733	Central st.	decorator
YOUNG, JAMES A.	585	Broadway	motorman





